

DAEWOO

Service Manual

XGA COLOR MONITOR

**Model : 720D
905D
905DS
905DF**

DAEWOO ELECTRONICS CO., LTD.

[http : //svc.dwe.co.kr](http://svc.dwe.co.kr)

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SAFETY PRECAUTIONS

CAUTION: No modifications of any circuits should be attempted. Service work should be performed only after you are thoroughly familiar with all of the following safety checks and servicing guidelines.

◆ Safety Check

Care should be taken while servicing this analog color display because of the high voltages used in the deflection circuits. These voltages are exposed in such areas as the associated flyback and yoke circuits.

◆ Fire & Shock Hazard

- Insert an isolation transformer between the analog color display and AC power line before servicing the chassis.
- When servicing, pay close attention to the original lead dress especially in the high voltage circuit area; if a short circuit is found, replace all parts which have been overheated as a result of the short circuit.
- All the protective devices must be reinstalled per original design.
- Soldering must be inspected for possible cold solder points, frayed leads, damaged insulation, solder splashes or sharp solder points. Be certain to remove all foreign materials.

◆ Implosion Protection

Picture tube in this monitor employs intergral implosion protection system, but care should be taken to avoid damage and scratching during installation.
Only use same type replacement picture tubes.

IMPORTANT SAFETY NOTICE: There are special components used in this analog color display, which are important for safety. These parts are shaded on the schematic diagram and on the replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-Ray, shock, fire or other hazards. Do not modify the original design without getting written permission from DAEWOO ELECTRONICS CO. or this will void the original parts and labor warranty.

◆ X-Ray

WARNING: The only potential source of X-Ray is the picture tube. However when the high voltage circuitry is operating properly, there is no possibility of an X-Ray problem. The basic precaution which must be exercised is to keep the high voltage at the following factory recommended level.

NOTE: It is important to use an accurate, periodically, calibrated high voltage meter.

- To measure the high voltage, use a high-impedance high-voltage meter. Connect(-) to chassis and (+) to the CRT anode button.
- Turn the Contrast & Brightness Control fully counterclockwise.
- Measure the high voltage. The high voltage meter should indicate the following factory recommended levels.
- If the upper meter indication exceeds the maximum level, immediate service is required to prevent the possibility of premature component failure.
- To prevent X-Ray possibility, it is essential to use the specified picture tube.
- The normal high voltage is 25.5KV or below and must not exceed 29KV at zero beam current at rated voltage.

GENERAL SAFETY INFORMATION

◆ Terms in the manual

- CAUTION Statements identify conditions or practices that could result in damage to the equipment or other property.
- WARNING Statements identify conditions or practices that could result in personal injury or loss of life.

◆ Terms as marked on equipment

- CAUTION Statements indicate a personal injury hazard not immediately accessible as one reads the marking or a hazard which is properly included on the equipment itself.
- WARNING Statements are clearly concerning indicated personal injury hazards.

◆ Symbols in the manual

The symbols indicate where applicable cautionary or other information is to be found.

◆ Symbols as marked on equipment

Protective GROUND terminal



◆ High Voltage Warning And Critical Component Warning Label

The following warning label is on the CRT PWB shield case inside the unit.

Warning: This product includes critical mechanical and electrical parts which are essential for x ray protection. For continued safety, replace critical components that are indicated in the service manual with exact replacement parts given in the parts list.

Operating high voltage with this product is 29Kv at minimum brightness. Refer to service manual for measurement procedures and proper service adjustments.

SERVICING PRECAUTIONS

CAUTION: Before servicing instruments covered by this service manual, its supplements, and addendum, please read and follow the SAFETY PRECAUTIONS of this manual.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 1 of this manual, always follow the safety precautions. Remember: Safety First.

◆ General Servicing Precautions

1. Always unplug the AC power cord from the AC power source before:
 - a. Removing or reinstalling any component, circuit board, module, or any other instrument assembly.
 - b. Disconnecting or reconnecting any electrical plug or other electrical connection.
 - c. Connecting a test substitute in parallel with an electrolytic capacitor in the instrument.

CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in a explosion.

- d. Discharging the picture tube anode.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM. etc.) equipped with a suitable high voltage probe. Do not test high voltage by “drawing an arc”.
3. Discharge the picture tube anode only by: (a) first connecting one end of an insulated clip lead to the degaussing or line grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touching the other end of the insulated clip lead to the picture tube anode button, using an insulating handle to avoid personal contact with high voltage.
4. Do not spray chemicals on or near this instrument, or any of its assemblies.
5. Unless otherwise specified in this service manual, only clean electrical contacts by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick, or comparable nonabrasive applicator: 10% (by volume) Aceton and 90% (by volume) isopropyl alcohol (90%-99% strength).

CAUTION: This is a flammable mixture. Unless specified in this service manual, lubrication of contacts is not required.

6. Do not damage any plug/socket B+ voltage interlocks with which instruments covered by this service manual might be equipped.
7. Do not apply AC power to this instrument and/or any other of its electrical assemblies unless all the solid-state device heat sinks are correctly installed.
8. Always connect the test instrument ground lead to the appropriate instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.
9. Only use the test fixtures specified in this service manual with this instrument.

CAUTION: Do not connect the test fixture ground strap to any heatsink in this instrument.

◆ Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity.

Such components are commonly called Electrostatically Sensitive (ES) Devices.

The typical examples of ES devices are integrated circuits, some field-effect transistors, and semiconductor “chip” components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, wipe off any electrostatic charge on your body by touching any known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device which should be removed for potential shock reasons prior to applying power to the unit under testing conditions.
2. After removing the electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil to prevent electrostatic charge buildup or exposure to the assembly.
3. Only use a grounded-tip soldering iron to solder or unsolder ES devices.
4. Only use an anti-static type solder removal device. Some solder removal devices not classified as “anti-static” can generate enough electrical charges to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate enough electrical charges to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil, or comparable conductive material).
7. Immediately before removing the protective material from the leads of replacement ES devices, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION: Be sure that no power is applied to the chassis or circuit, and observe all other safety precautions.
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8. Minimize bodily movements when handling unpackaged replacement ES devices. (Otherwise harmful motion such as the brushing together clothes fabric or the lifting your foot from a carpeted floor can generate enough static electricity to damage ES devices).

◆ General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron with appropriate tip size and shape that will maintain tip temperature between a 550°F-660°F (288°C-316°C) range.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean.
4. Thoroughly clean the surface to be soldered. Use a small wire-bristle (0.5 inch or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following soldering technique:
 - a. Allow the soldering iron tip to reach normal temperature (550°F to 660°F or 288°C to 316°C)
 - b. Hold the soldering iron tip and solder strand against the component lead until the solder melts.
 - c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there until the solder flows onto and around both the component lead and the foil.
 - d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

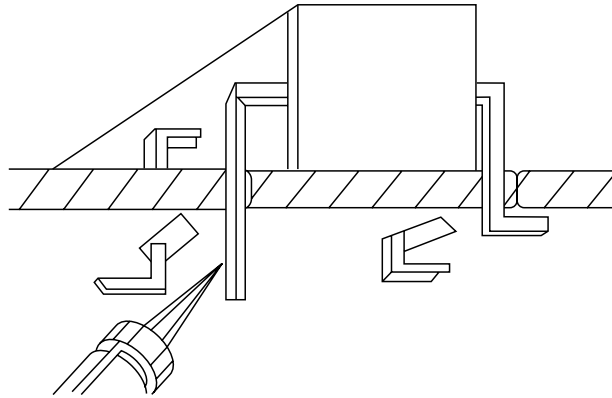


FIGURE 1. USE SOLDERING IRON TO PRY LEADS

◆ IC Removal/Replacement

Some utilized chassis circuit boards have slotted (oblong) holes through which the IC leads are inserted and then bent flat against the circuit foil. When holes are slotted, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 on the page under the title of general soldering guidelines.

◆ Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with desoldering braid before removing the IC).

◆ Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the area).

◆ “Small-Signal” Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend the ends of each of three leads remaining on the circuit board into a “U” shape.
3. Bend the replacement transistor leads into a “U” shape.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the “U” with long nose pliers to ensure metal-to-metal contact, then solder each connection.

◆ Power IC, Transistor or Devices Removal/Replacement

1. Heat and remove all solders from the device leads.
2. Remove the heatsink mounting screw (if applicable).
3. Carefully remove the device from the circuit board.
4. Insert new device in circuit board.
5. Solder each device lead and then clip off excess lead.
6. Replace heatsink.

◆ Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicularly to the circuit board.
3. Observing diode polarity, wrap each lead out of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect the solder joints of the two “original” leads on the circuit board copper side. If they are not shiny, reheat them and apply additional solder if necessary.

TECHNICAL INFORMATION

Model Names		720D	905D
CDT Size		17-inch	19-inch
Diagonal visible image area		16.2-inch	18-inch
Dot Pitch		0.26 mm	
Synchronization	Horizontal	30 - 95 KHz	
	Vertical	50 - 160 Hz	
Plug and Play		DDC1/2B/CI	
Power Saving		EPA, VESA DPMS, Nutek Compliant	
Power Source		100-240 Vac, 50/60Hz (Free Voltage)	
Power Consumption		80 W	90 W
Dimension-W x H x D (set with stand)		420 x 440 x 440mm	466 x 475.5 x 464.5mm
Weight-unpacked (lbs/Kg)		35.7/16.2	41.9/19.0
Operating Temperature		10 ~ 40°C /50 ~ 104°F	
Model Names		905DS	905DF
CDT Size		19-inch Short length	19-inch DynaFlat
Diagonal visible image area		18-inch	18-inch
Dot Pitch		0.26 mm	0.25 mm
Synchronization	Horizontal	30 - 95 KHz	
	Vertical	50 - 160 Hz	
Plug and Play		DDC1/2B/CI	
Power Saving		EPA, VESA DPMS, Nutek Compliant	
Power Source		100-240 Vac, 50/60Hz (Free Voltage)	
Power Consumption		90 W	
Dimension-W x H x D (set with stand)		466 x 475.5 x 408.5mm	466 x 475.5 x 465mm
Weight-unpacked (lbs/Kg)		44.0/20.0	47.3/21.5
Operating Temperature		10 ~ 40°C /50 ~ 104°F	

GENERAL INFORMATION

This color monitor automatically scans all horizontal frequencies from 30KHz to 95Hz, and all vertical frequencies from 50Hz to 160Hz. This color monitor adopted the OSD (On Screen Display), it shows the sync polarity and frequency and it provides that easily adjust control. This color monitor supports IBM PC, PC/XT, PC/AT, personal System/2 (PS/2), Apple Macintosh, and compatible users crisp text and vivid color graphics display when using the following graphics adapters : (VGA, 8514/A, Super VGA, VESA and XGA and Apple Macintosh Video Card). And so, this color monitor has a maximum horizontal resolution of 1600 dots and a maximum vertical resolution of 1200 lines for superior clarity of display.

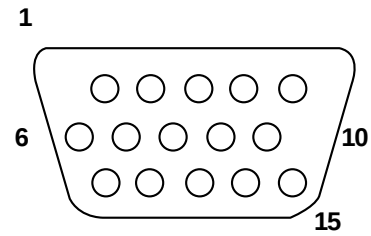
By accepting analog signal inputs which level is zero to 0.7 Volts. This color monitor can display and unlimited palette of colors depending on the graphics adapter and software being used.

◆ Abbreviations

ADJ	Adjustment
AFC	Automatic Frequency Control
CRT	Cathode Ray Tube
Def	Deflection
D.Y	Deflection Yoke
HVG	High Voltage Generator
H.SYNC	Horizontal Synchronization
OSC	Oscillator
P.S.U	Power Supply Unit
PWA	Printed Circuit Board Wiring Assembly
R.G.B	Red, Green, Blue
V.Sync	Vertical Synchronization

PIN CONNECTOR

Pin	Signal
1	Red
2	Green
3	Blue
4	GND
5	GND
6	GND - Red
7	GND - Green
8	GND - Blue
9	+5Vdc
10	GND - H.Sync
11	GND - V.Sync
12	Bi-directional Data (SDA)
13	Horizontal Sync
14	Vertical Sync (VCLK)
15	Data Clock (SCL)



Arrangement of 15-pin D-sub connector

CAUTIONS FOR ADJUSTMENT AND REPAIR

- Degaussing is always required when adjusting purity or convergence.
- The white balance adjustment has been done by a color analyzer in factory. The adjustment procedure, described in the service manual is made by a visual check.
- Allow 20 minutes warm-up time for the display before checking or adjusting only electrical specification or function.
- Reform the leadwire after any repair work.

◆ Caution For Servicing

- In case of servicing or replacing CRT, high voltage sometimes remains in the anode of the CRT. Completely discharge high voltage before servicing or replacing CRT to prevent a shock to the serviceman.

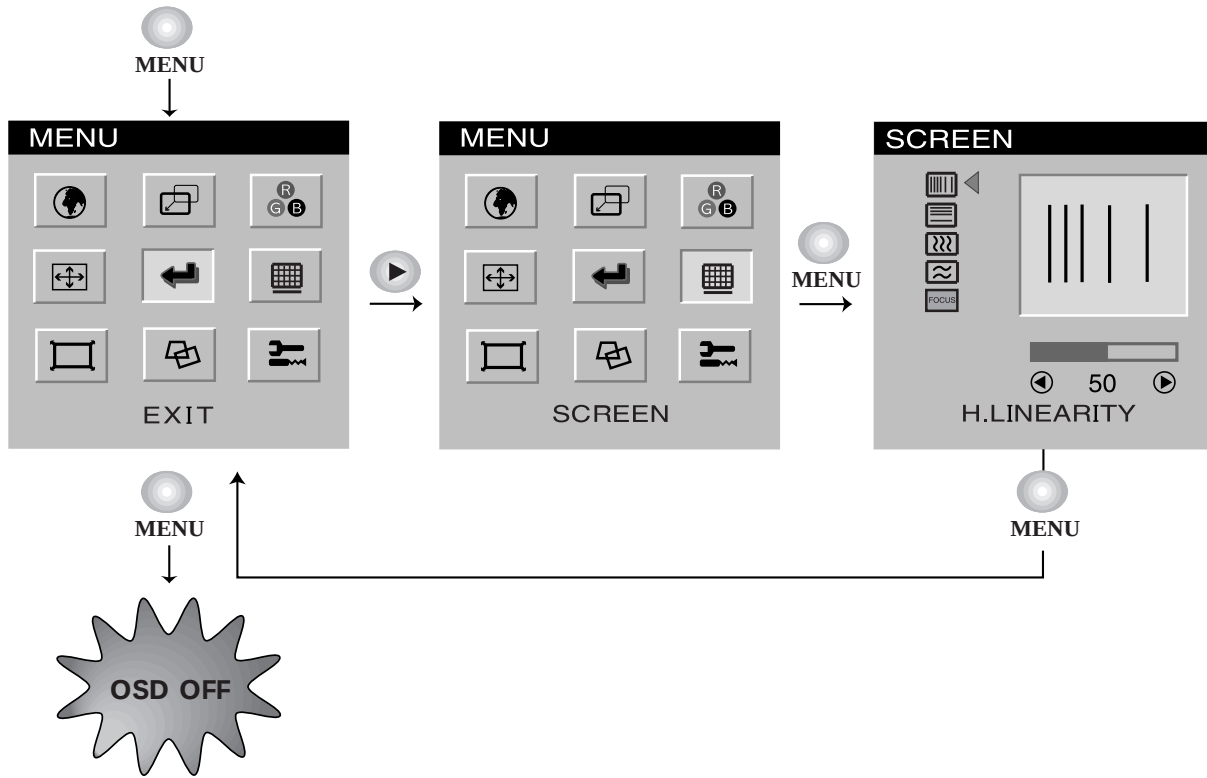
OPERATION & ADJUSTMENT

Control Panel



- 
 - Move cursor to the right window on the OSD window.
 - Increase the value of any selected function.
- 
 - Move cursor to the left window on the OSD window.
 - Decrease the value of any selected function.
- 
 - Launch OSD(On-Screen Display) MENU window.
- 
 - Move cursor to the high window on the OSD window.
 - Increase the value of V.size or V.center.
- 
 - Move cursor to the low window on the OSD window.
 - Decrease the value of V.size or V.center.

Key Process



- When you choose the icon  on the OSD window, you can exit the OSD screen.

Hot Key



OSD Functions

<i>ICON</i>	<i>CONTROL</i>	<i>FUNCTIONS</i>
	LANGUAGE	Select language for OSD (5 languages).
	H. CENTER & V. CENTER	Adjust the position of the display horizontally(left or right) and vertically (up or down).
	COLOR TEMP	Choose different preset color temperatures or set your own customized color parameters.
	RED GAIN	Adjust the red gain.
	GREEN GAIN	Adjust the green gain.
	BLUE GAIN	Adjust the blue gain.
	RED BIAS	Adjust the red bias.
	GREEN BIAS	Adjust the green bias.
	BLUE BIAS	Adjust the blue bias.
	H. SIZE & V. SIZE	Adjust the width (horizontal size) and the height (vertical size) of the display.
	H. LINEARITY	Adjust the horizontal linearity.
	V. LINEARITY	Adjust the vertical linearity.
	H. MOIRE	Adjust the horizontal picture moire cancellation.
	V. MOIRE	Adjust the vertical picture moire cancellation.
	FOCUS	Adjust the focus image.
	ZOOM	Adjust the display width & height at the same time.



ICON	CONTROL	FUNCTIONS
	PINCUSHION	Adjust the left and right margins for more convex or more concave margins.
	TRAPEZOID	Adjust the trapezoid of the screen by moving the lines inward or outward.
	PIN BALANCE	Adjust the side balance when the sides of the screen are bowed towards left or right.
	PARALLELOGRAM	Adjust the parallelogram when the screen is leaning left or right.
	T. PIN CORNER	Adjust the pin corner top when the top sides of the screen are bowed.
	B. PIN CORNER	Adjust the pin corner bottom when the bottom sides of the screen are bowed.
	ROTATION	Adjust the rotation when the screen is tilted left or right.
	DEGAUSS	Degauss the display and restore image quality.
	STATUS	Display horizontal & vertical frequency and polarity.
	POWER SAVER	YES : VESA DPMS operation. NO : NO DPMS operation.
	TEST PATTERN	Display a RGB Color Bar to determine whether the screen color is expressed normally or not.
	RECALL	Reset the screen to the Factory Preset Display Settings.

ALIGNMENT PROCEDURE

◆ Standard Adjustment Conditions

1. Power source voltage : AC 100 - 240Vac, 50/60Hz.
2. Aging : Take at least 15 minutes warm-up time.
3. Signals.
 - Video : Analog 0.7Vpp 75Ω terminal positive polarity
 - Synchronizing : Composite H+V Sync : 1.0Vpp ~ 5.0Vpp (Positive / Negative)
 - Separate H, V Sync : TTL Level (Positive / Negative)
 - Deflection frequency
 - Horizontal Frequency : 30KHz - 95KHz
 - Vertical Frequency : 50Hz - 160Hz

◆ Main Adjustment

1. Setting the Controls
 - Set contrast and brightness in Control Menu unless otherwise specified.
 - Contrast : Max.
 - Brightness : Center
2. H. Size, H. Center, V. Size, H. Center, Side Pincushion, T. Pin Corner, B. Pin Corner, Trapezoid, Parallelogram, Rotation, Pin Balance, H. Linearity, V. Linearity
 - Receive the cross hatch pattern of Factory preset mode.
 - H. Size, H. Center, V. Size, H. Center, Side Pincushion, T. Pin Corner, B. Pin Corner, Trapezoid, Parallelogram, Rotation, Pin Balance, H. Linearity, V. Linearity controls are adjusted at each mode.
 - In Factory, Auto Alignment was done at each mode. Therefore, Factory preset mode have their own value according to each control.
3. Focus
 - (a) Set brightness control to center and contrast control to Maximum.
 - (b) Receive all "H" character pattern of 91KHz mode signal.
 - (c) Adjust the Static Focus VR to obtain best H.Focus.
 - (d) Adjust the Dynamic Focus VR to obtain best V.Focus.
 - (e) If the H/V Focus is not satisfactory, readjust the Static / Dynamic Focus.
4. White Balance Adjustment
 - (a) Select 9300°K on the OSD Menu.
 - (b) Receive a full white pattern of 91KHz mode signal by using the signal generator.
 - (c) Set the brightness control to 80 and the contrast control to maximum.
 - (d) Cut off the HVG screen VR.
 - (e) Receive all the black patterns. The luminance of the screen should be 0.2 ± 0.03 Ft-L by using Screen VR.
 - (f) Select the R-BIAS, G-BIAS and B-BIAS on the control menu and adjust the ◀/▶ key to get the color coordinates in $x=0.281 \pm 0.015$, $y=0.311 \pm 0.015$.
 - (g) Receive a small block pattern. Adjust the brightness value to the center.
 - (h) Select the R-GAIN and B-GAIN and adjust the ◀/▶ key to get the color coordinates in $x=0.281 \pm 0.015$, $y=0.311 \pm 0.015$.
 - (i) Adjust the ABL(at the OSD) control to get the screen luminance to 40 Ft/L (a small block pattern).
 - (j) Receive a full white pattern. Adjust VR581(Sub-contrast) to get the screen luminance to 30 Ft-L. Check if the x, y coordinates of color analyzer is in $x=0.281 \pm 0.015$, $y=0.311 \pm 0.015$. If the color coordinates is out of range, adjust the R. G. B BIAS & GAIN to get the coordinates in $x=0.281$, $y=0.311$. Make sure that the coordinates is in the appropriate range.
 - (k) Select 6550°K on the OSD Menu and set the color coordinates in $x=0.313$, $y=0.329$ at the maximum contrast control and center brightness control
 - (l) Check if a full white pattern is over 30Ft/L.

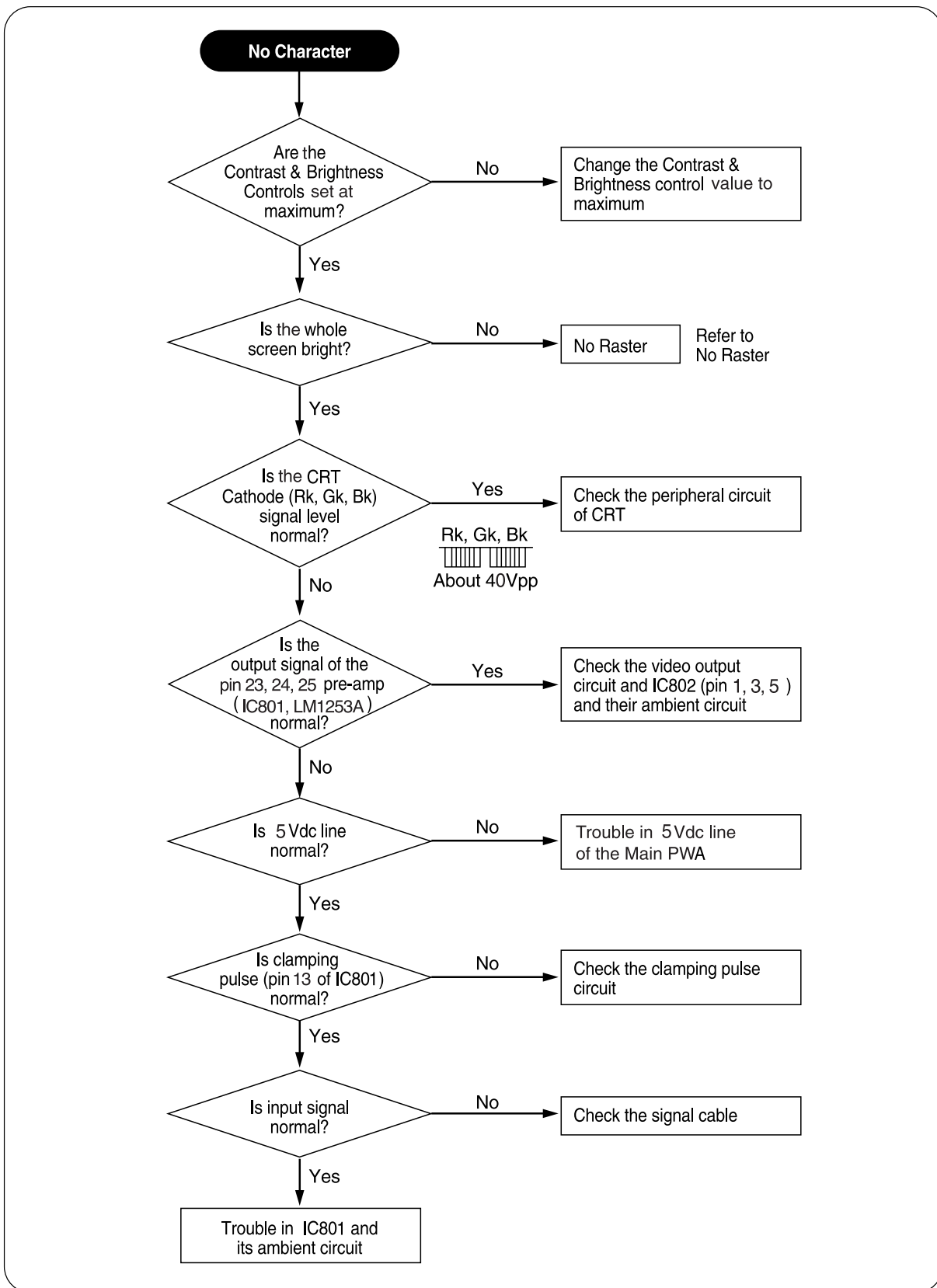


5. Static Convergence Adjustment

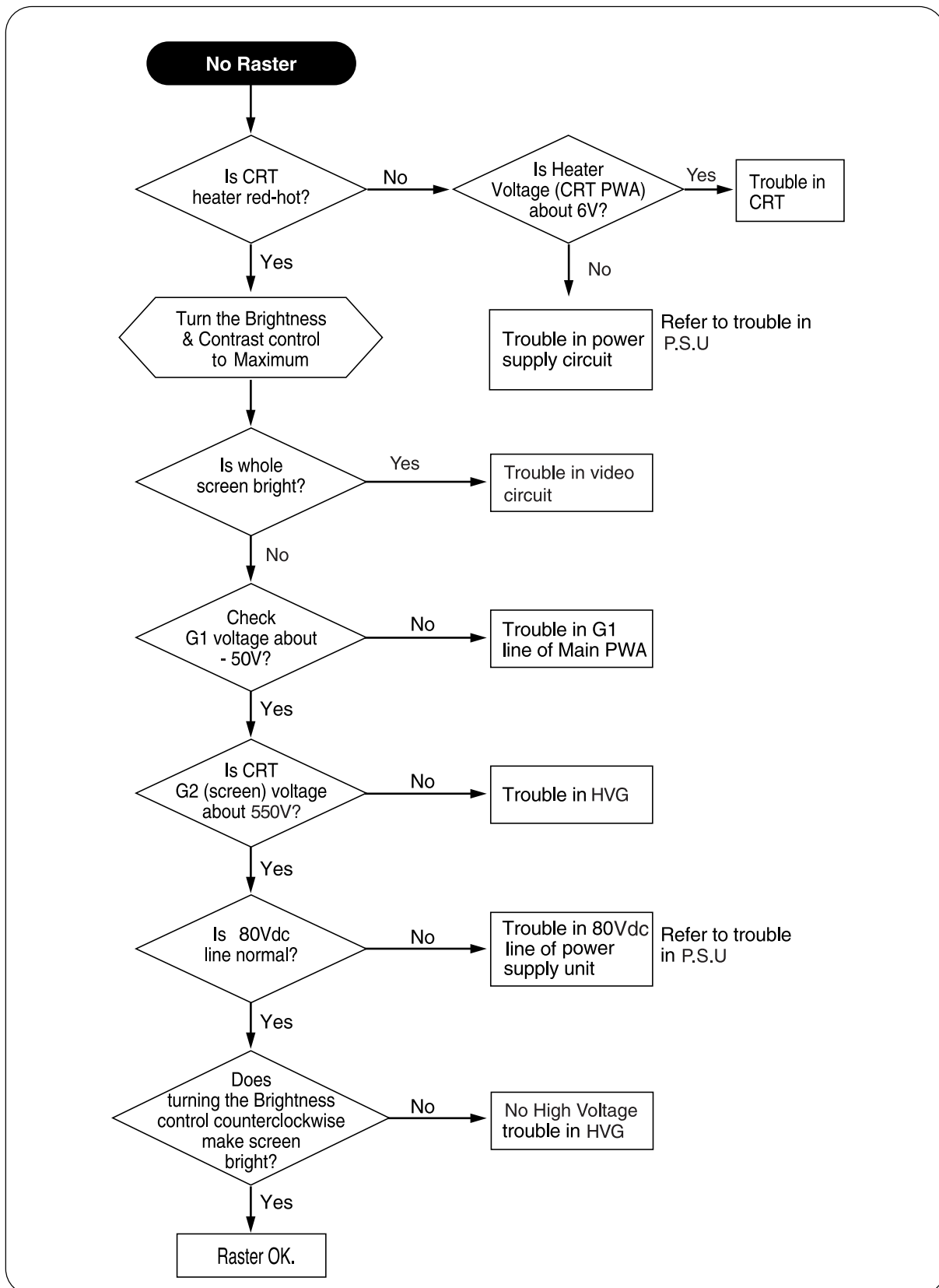
- (a) Apply a magenta cross hatch pattern on display.
- (b) Adjust the focus from the best over all focus on the display.
Also adjust the brightness to the desired condition.
- (c) Vertical red and blue lines are converged by varying the angles between the two tabs of the 4-pole magnets.
- (d) Horizontal red and blue lines are converged by varying the tabs together and keeping the angle between them constant.
- (e) Apply a yellow cross hatch pattern on the display.
- (f) Vertical green and red lines are converged by barying the angle between the two tabs of the 6-pole magnets.
- (g) Horizontal green and red lines are converged by varying the tabs together and keeping the angle between them constant.

TROUBLESHOOTING HINTS

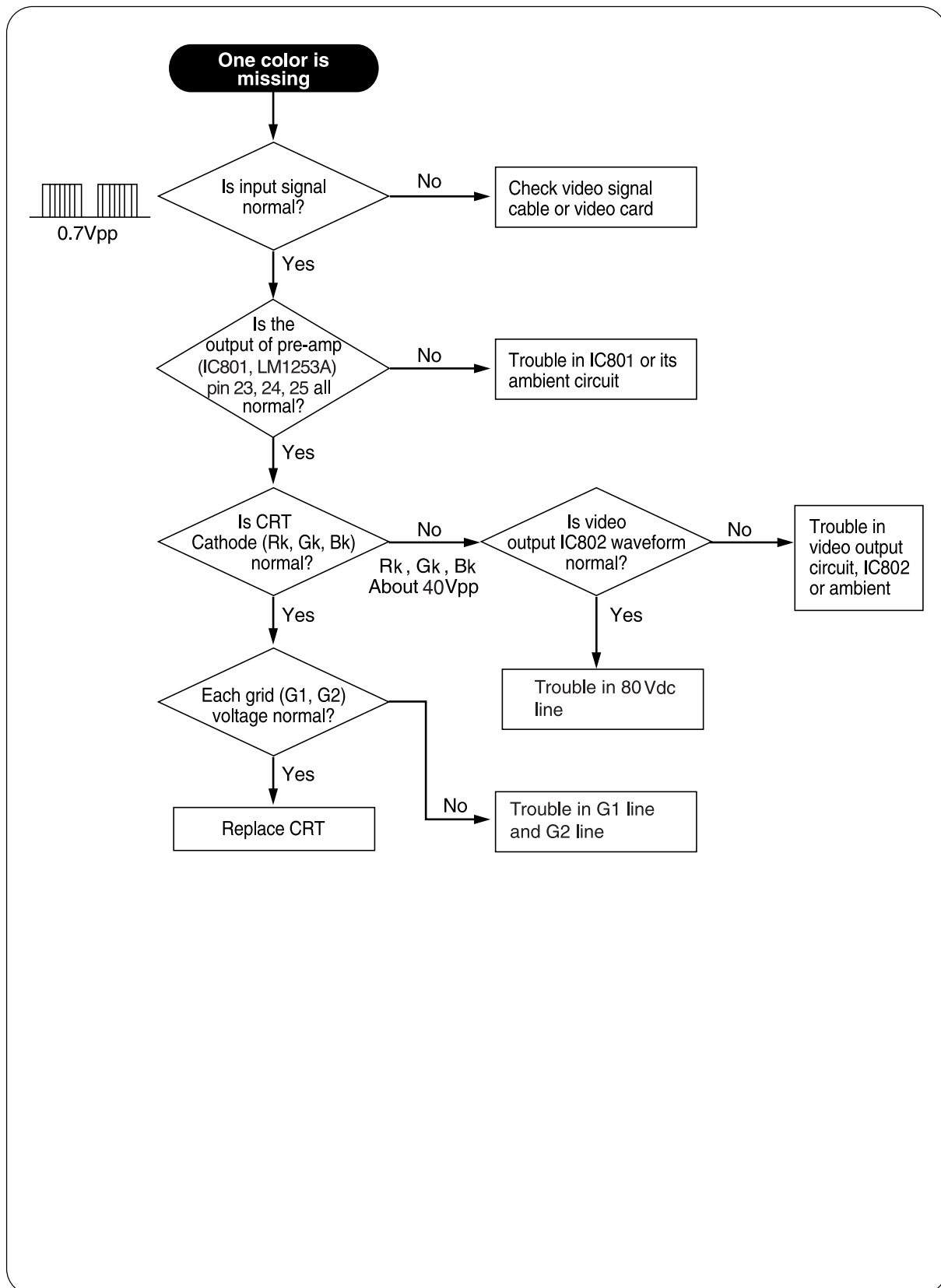
1. No Character



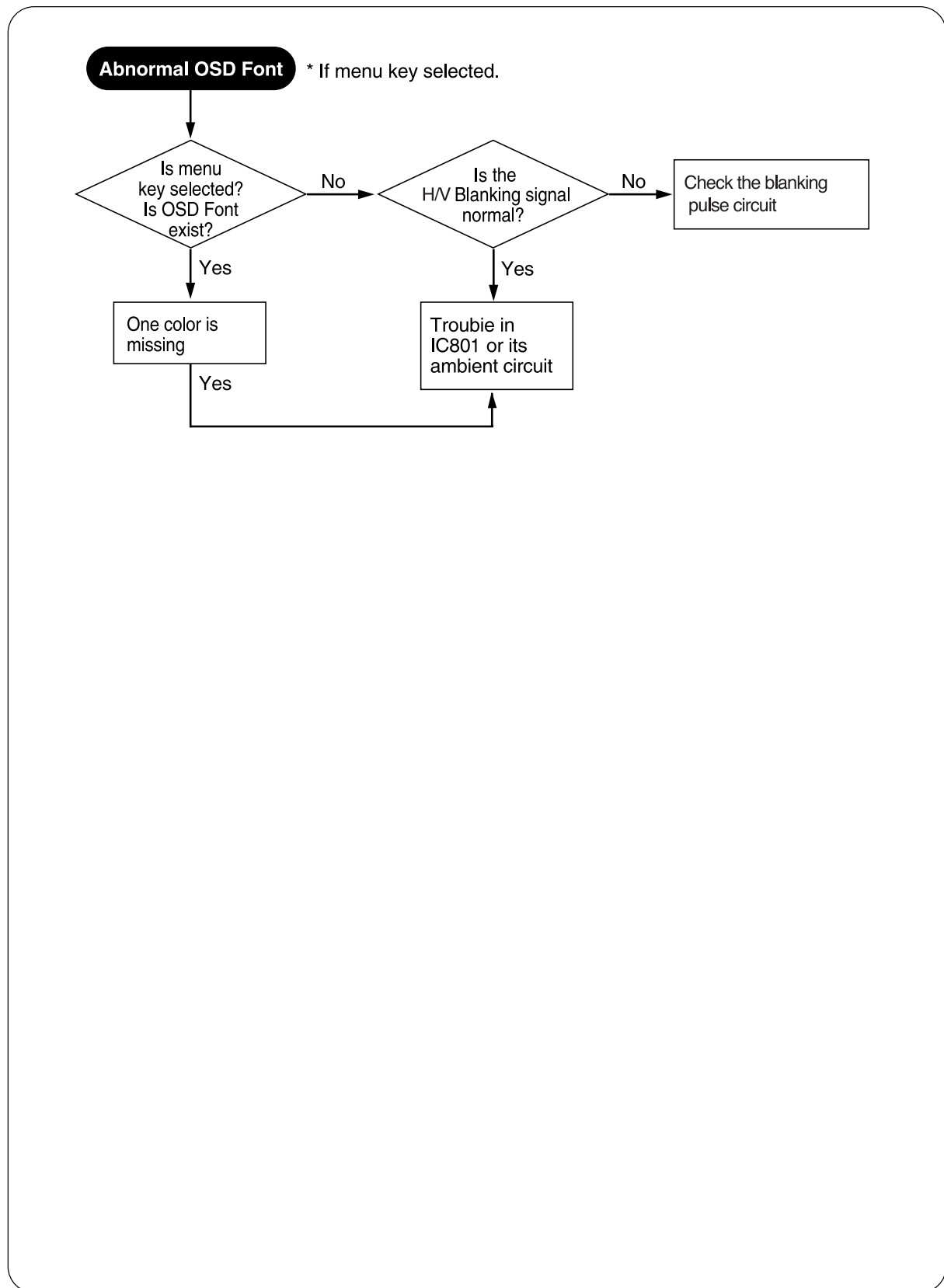
2. No Raster



3. A missing Color

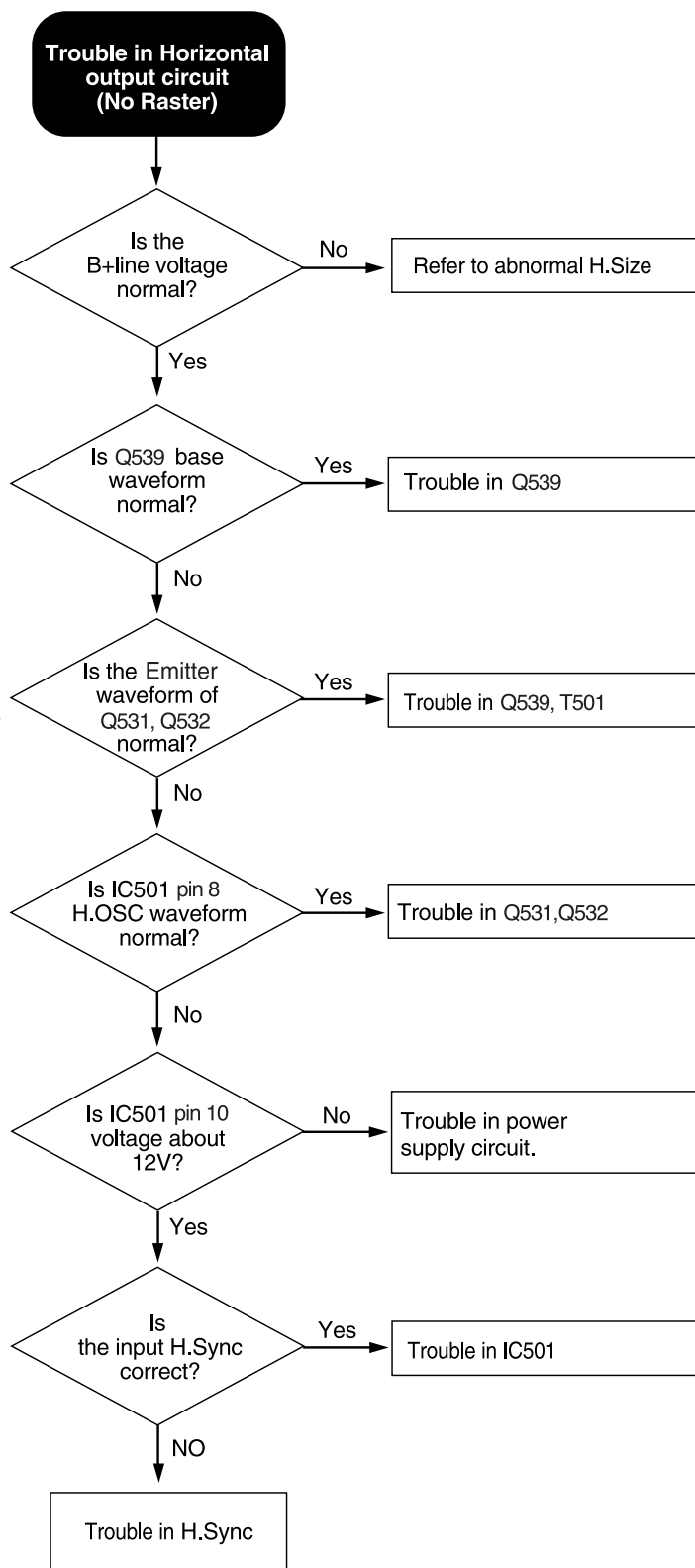
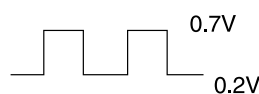
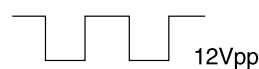
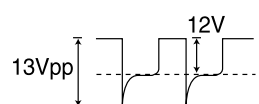


4. Abnormal OSD Font



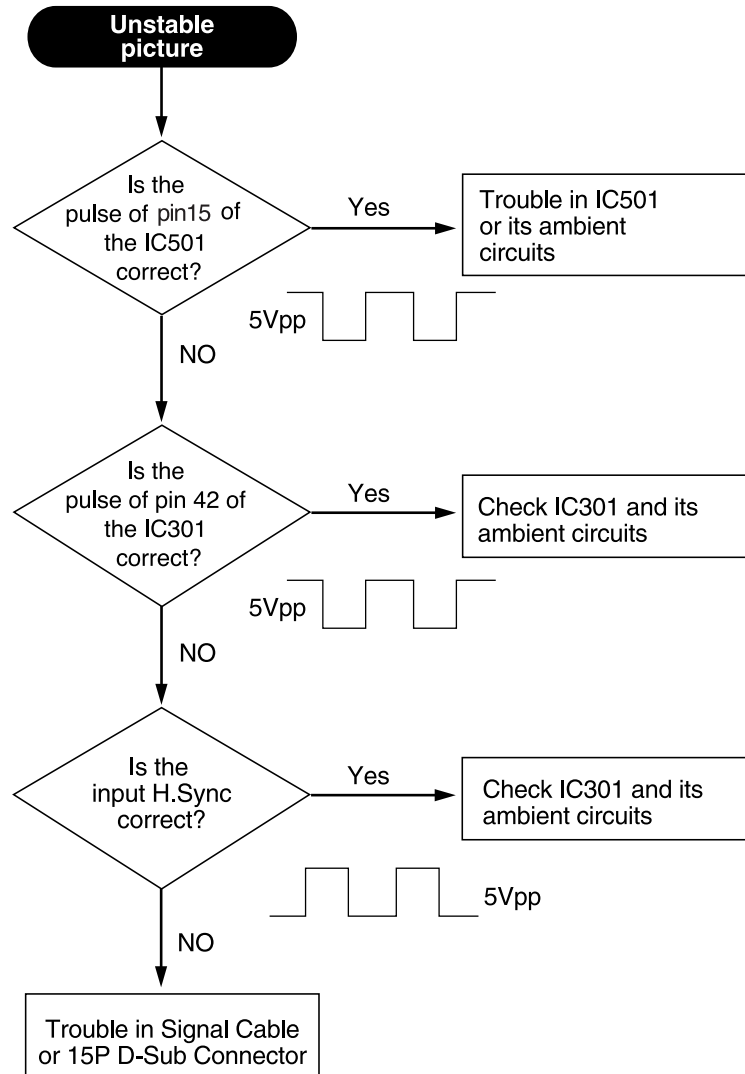
5. Horizontal Output Circuit

MODE	SCAN B+
VGA (31.5KHz)	43V
43KHz	60V
68KHz	97V
79KHz	112V
91KHz	127V

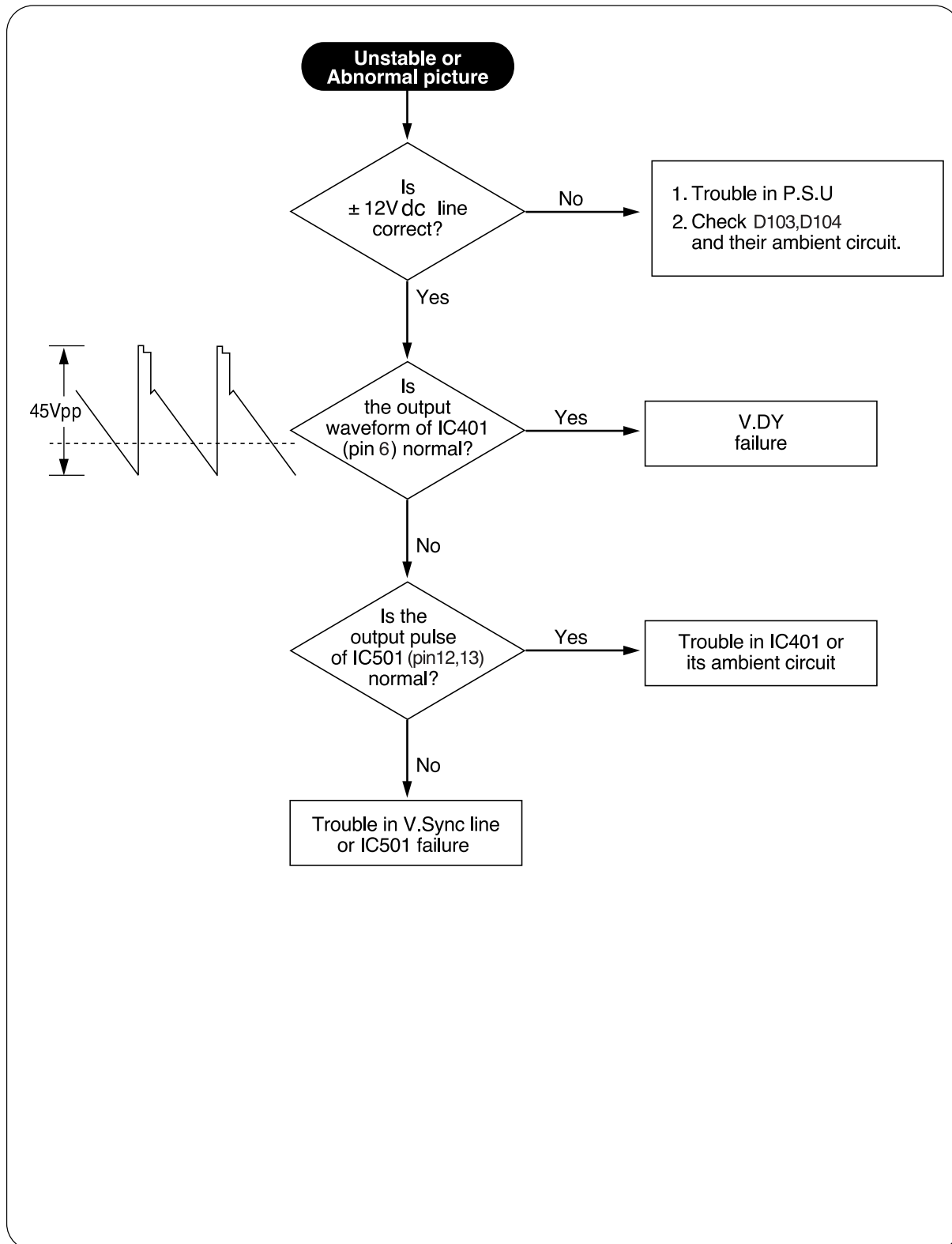


6. Unstable Picture

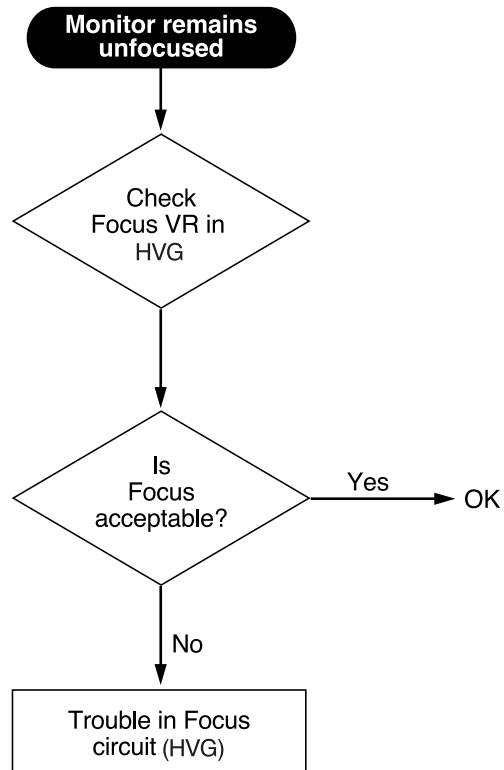
6-1. Horizontal



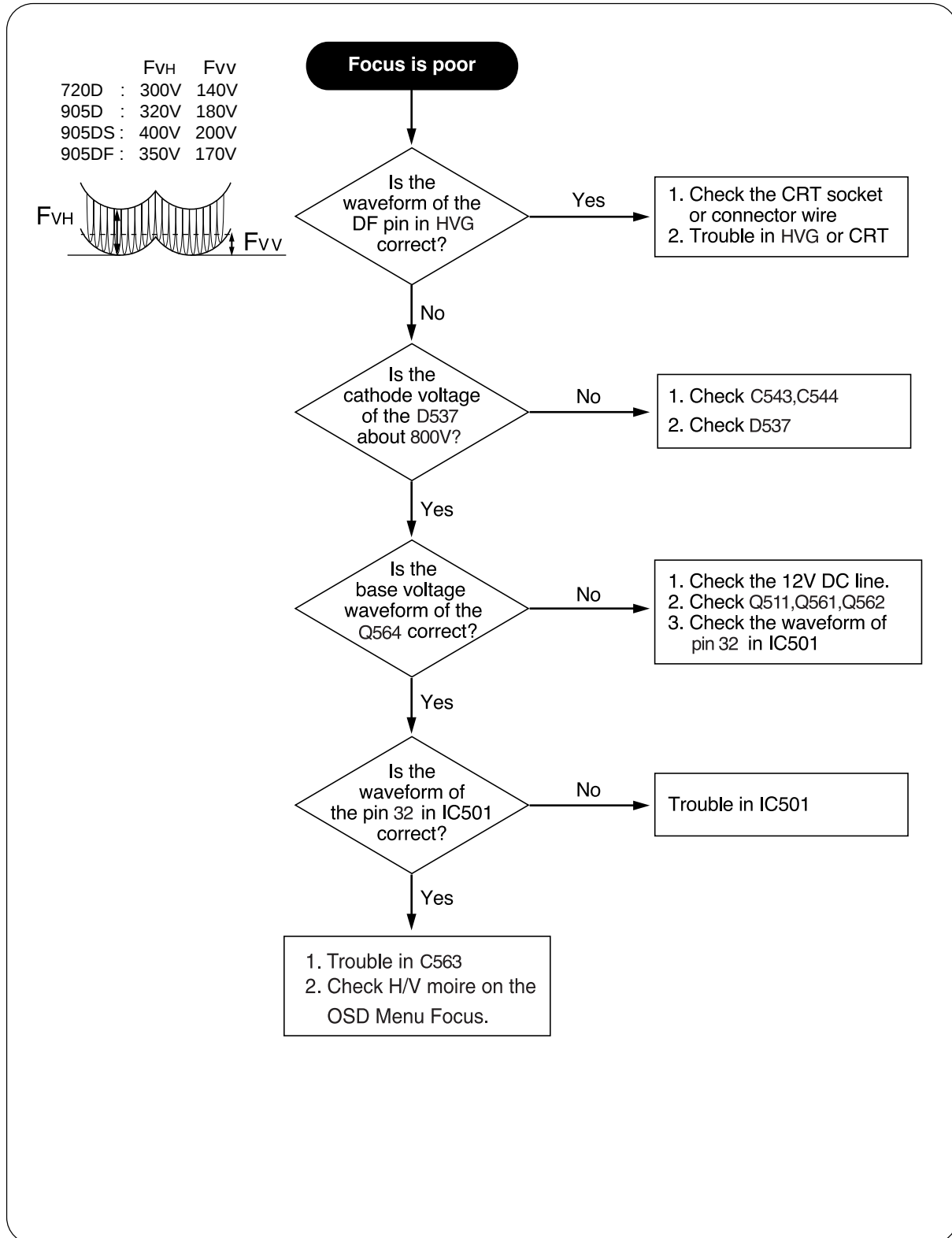
6-2. V.OSC/Deflection Circuit



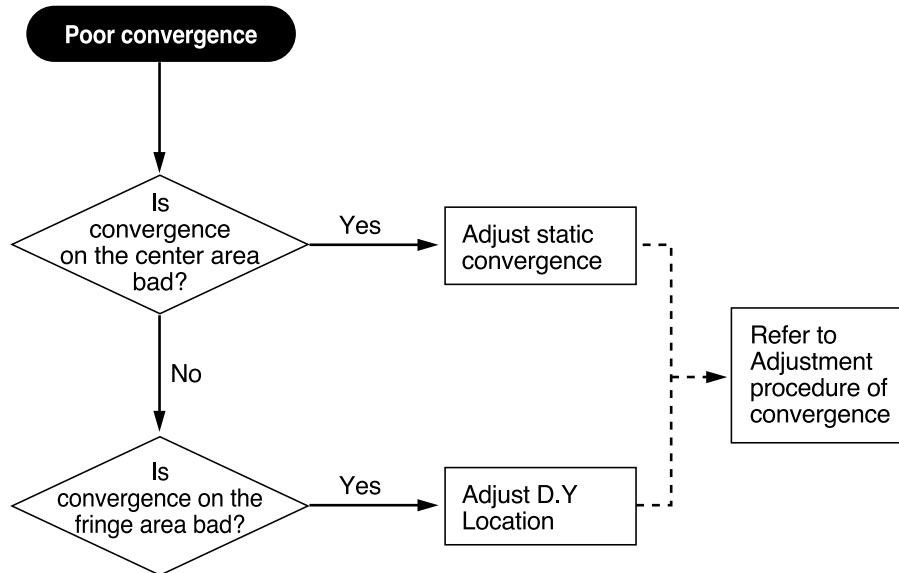
7. Focus



7-1. Dynamic Focus



8. Convergence



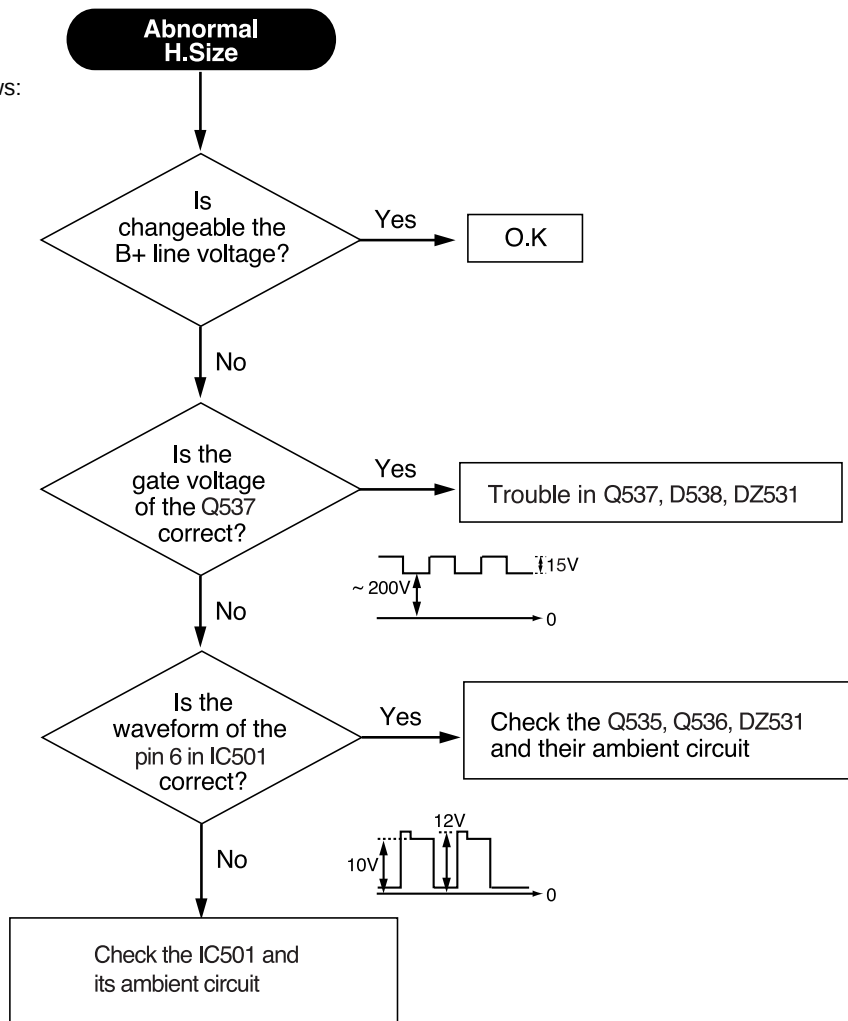
9. Abnormal Picture

9-1. Horizontal Size

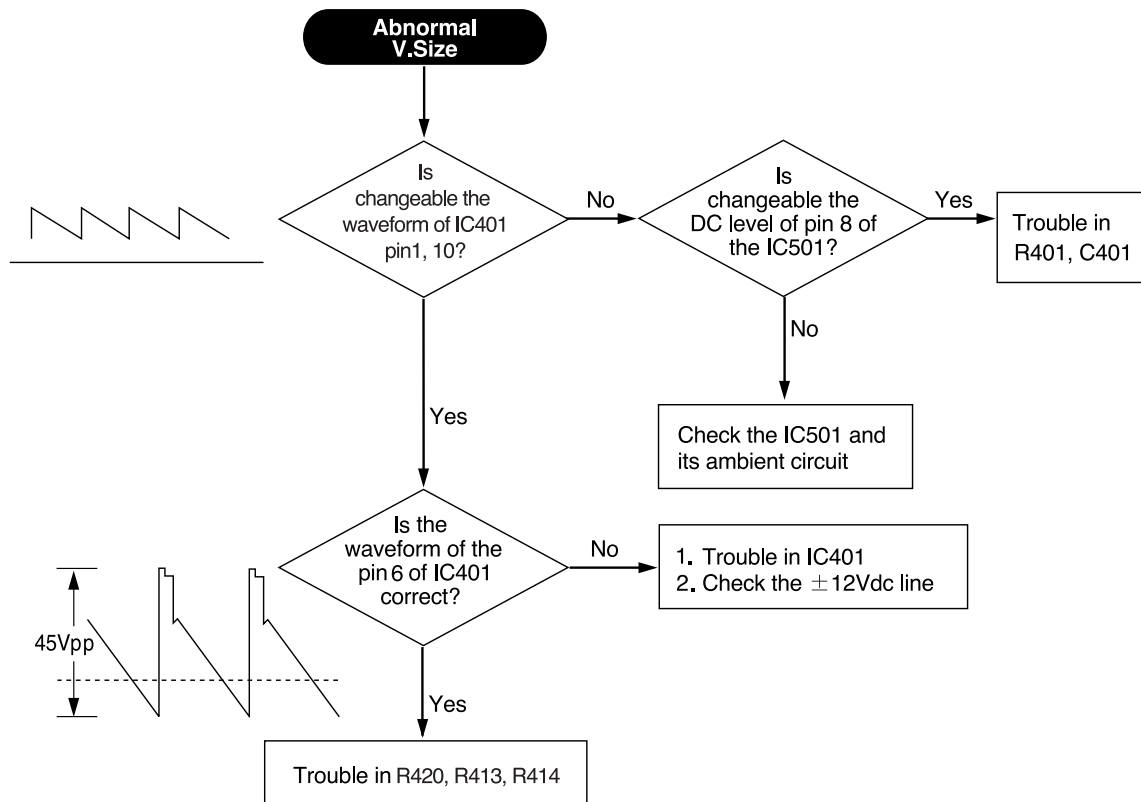
* At first, adjust controls in the OSD Menu

* The B+ are as follows:

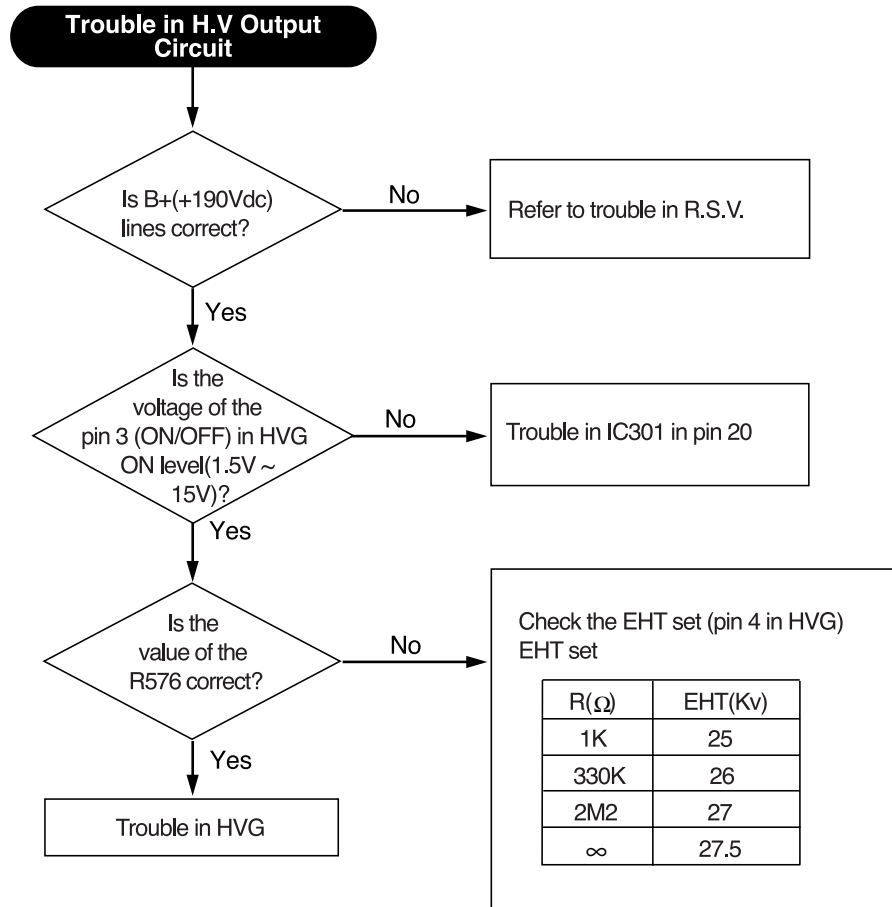
MODE	Scan B+
VGA	43V
43KHz	60V
68KHz	97V
79KHz	112V
91KHz	127V



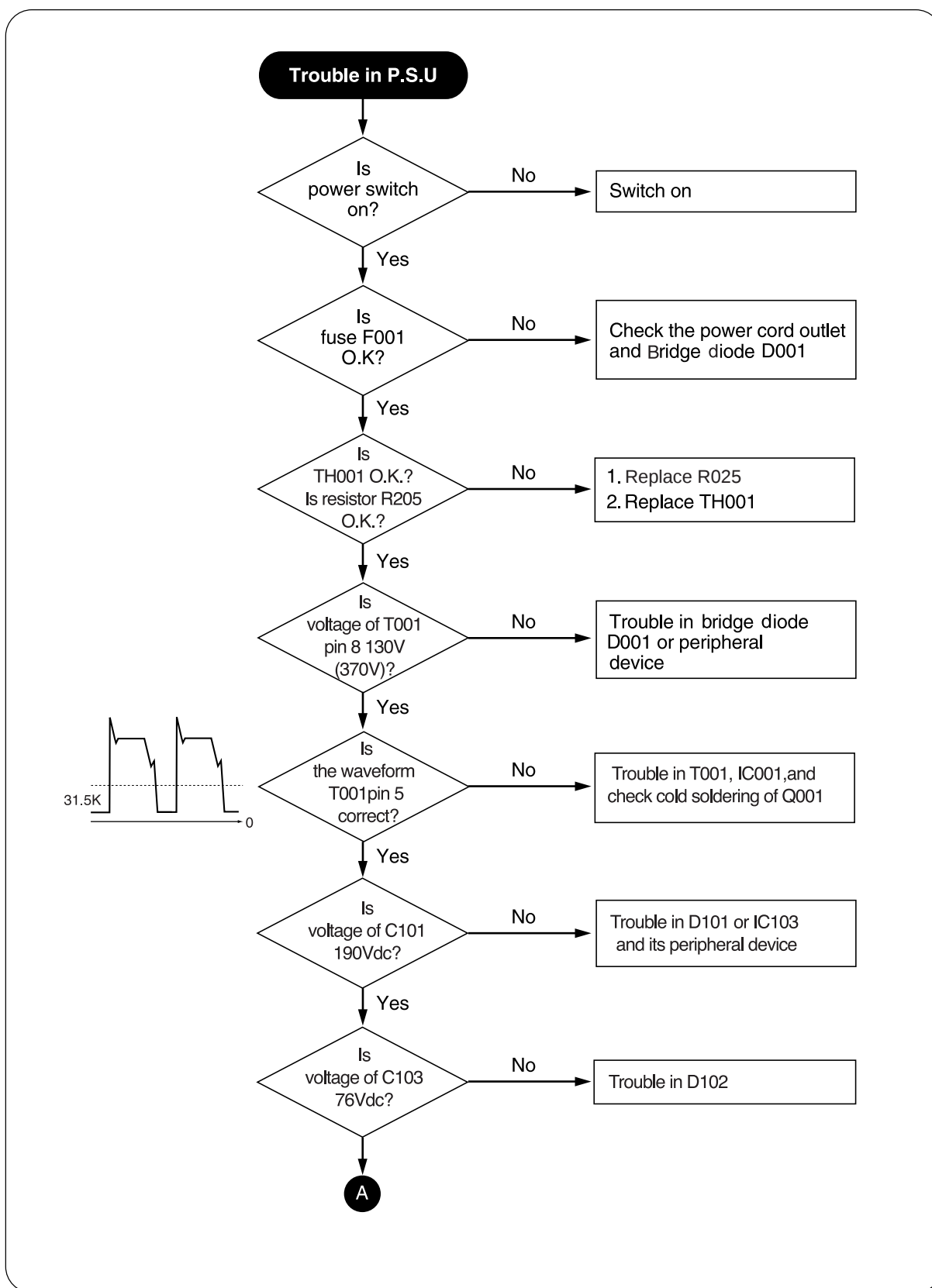
9-2. Vertical Size

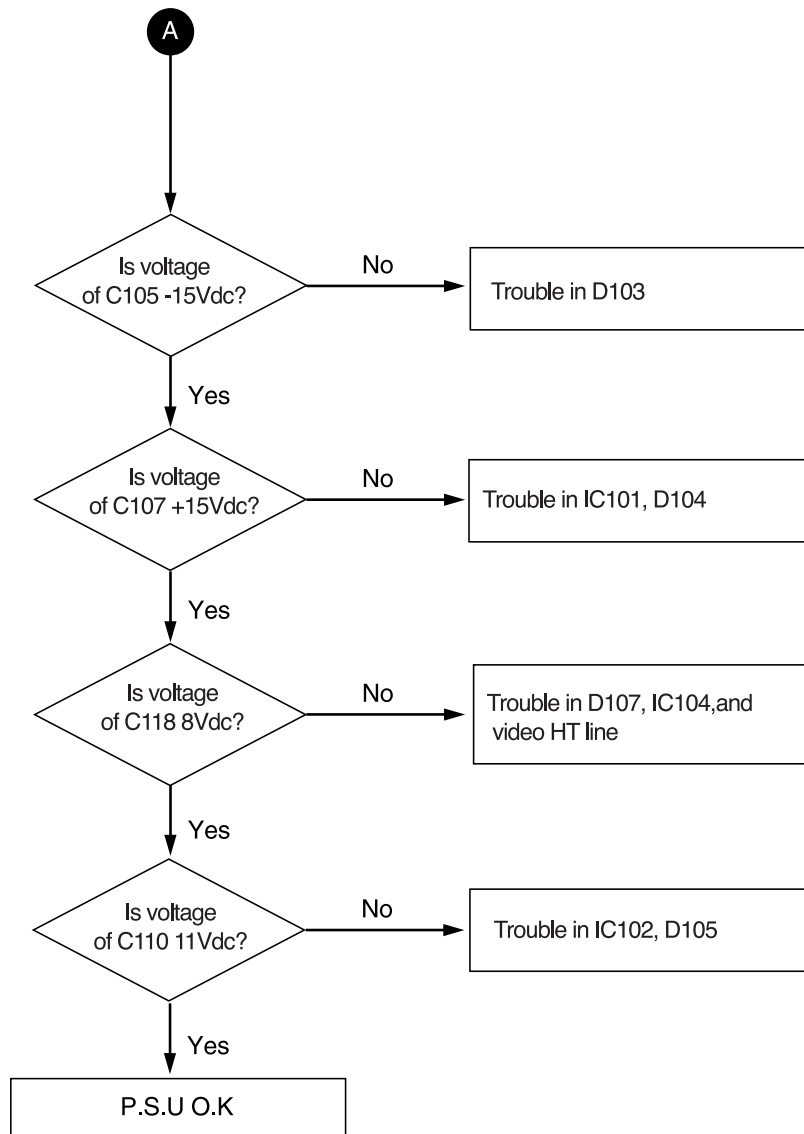


10. High Voltage Output Circuit

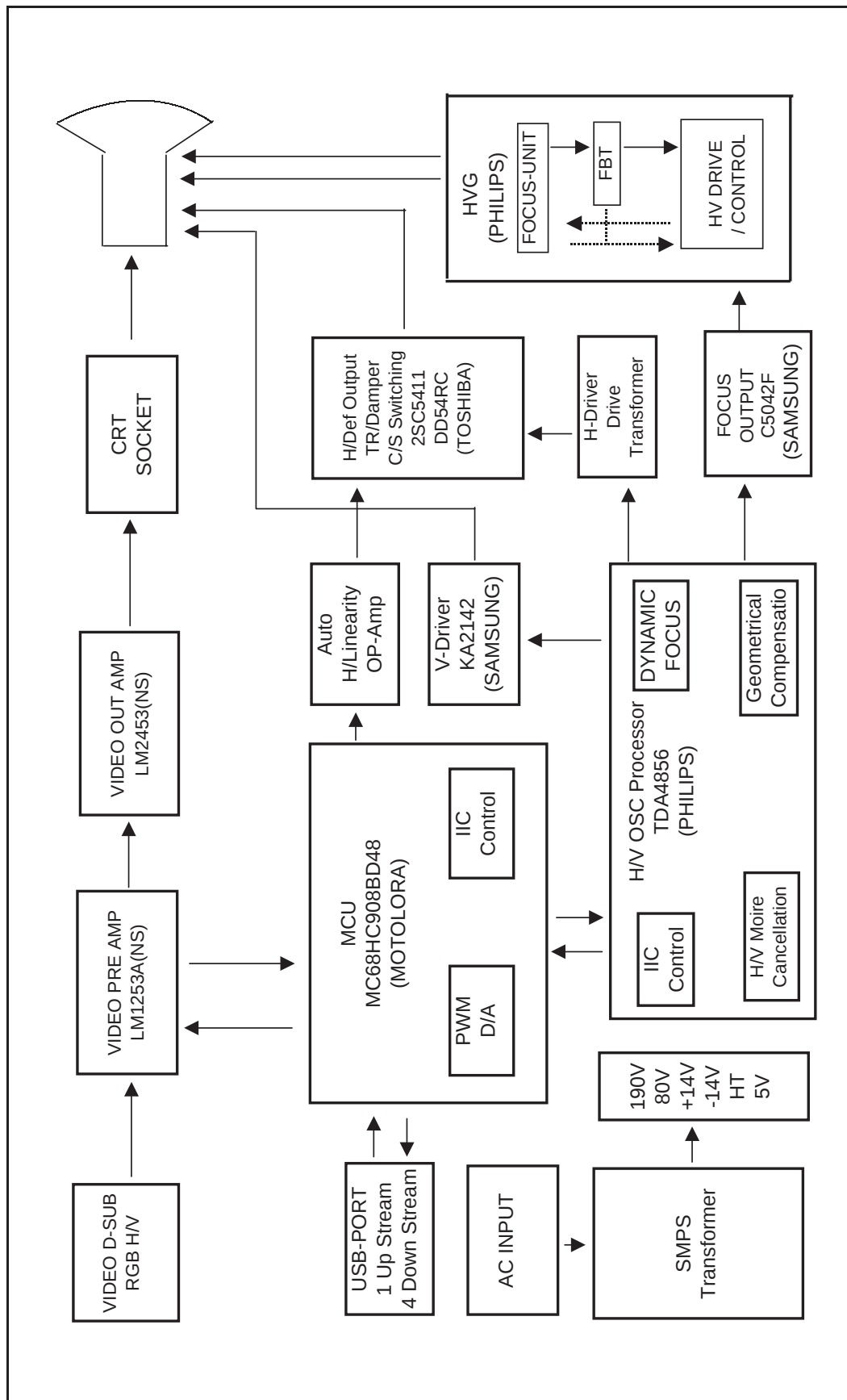


11. Power Supply Unit (P.S.U)



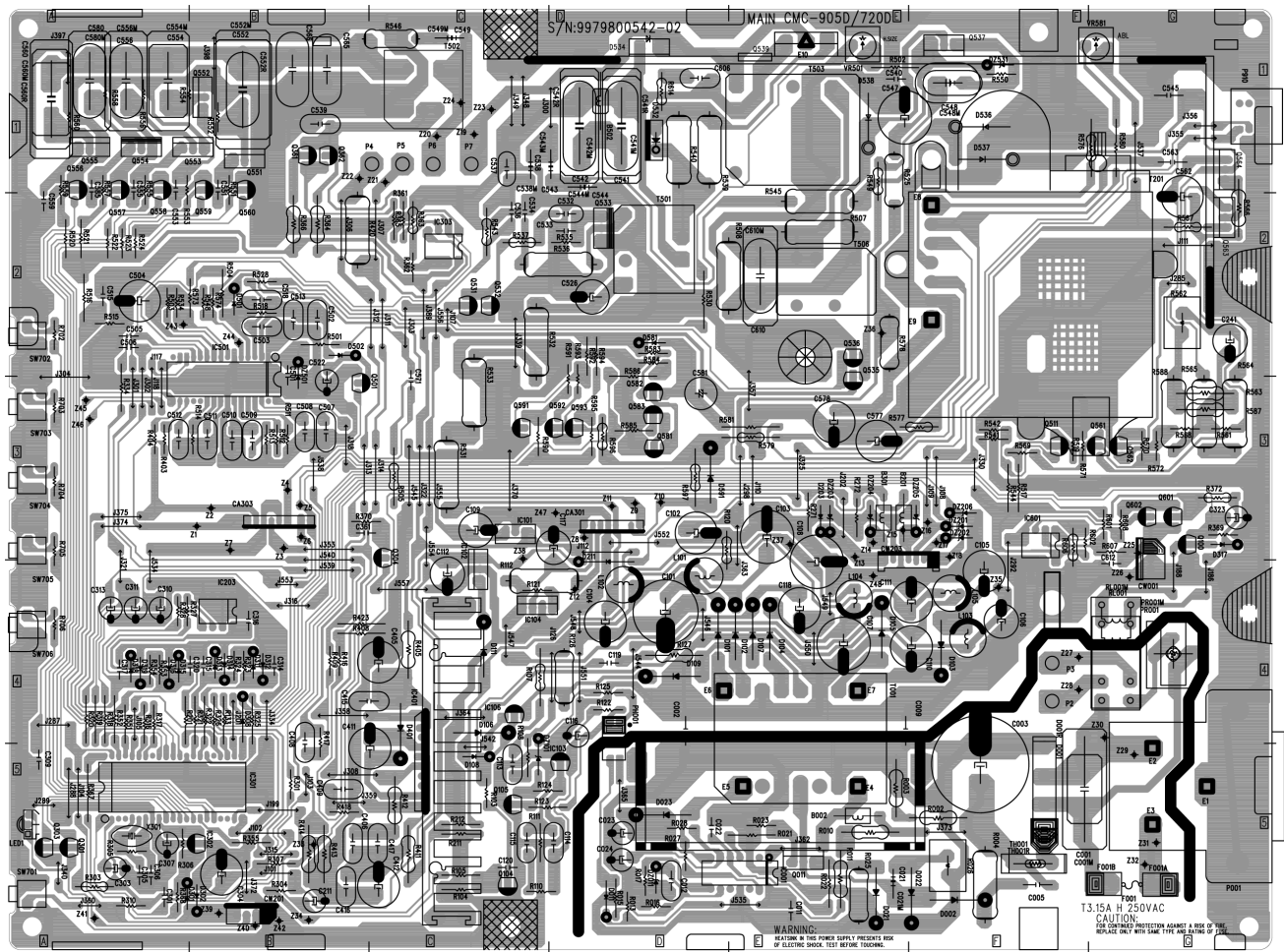


BLOCK DIAGRAM

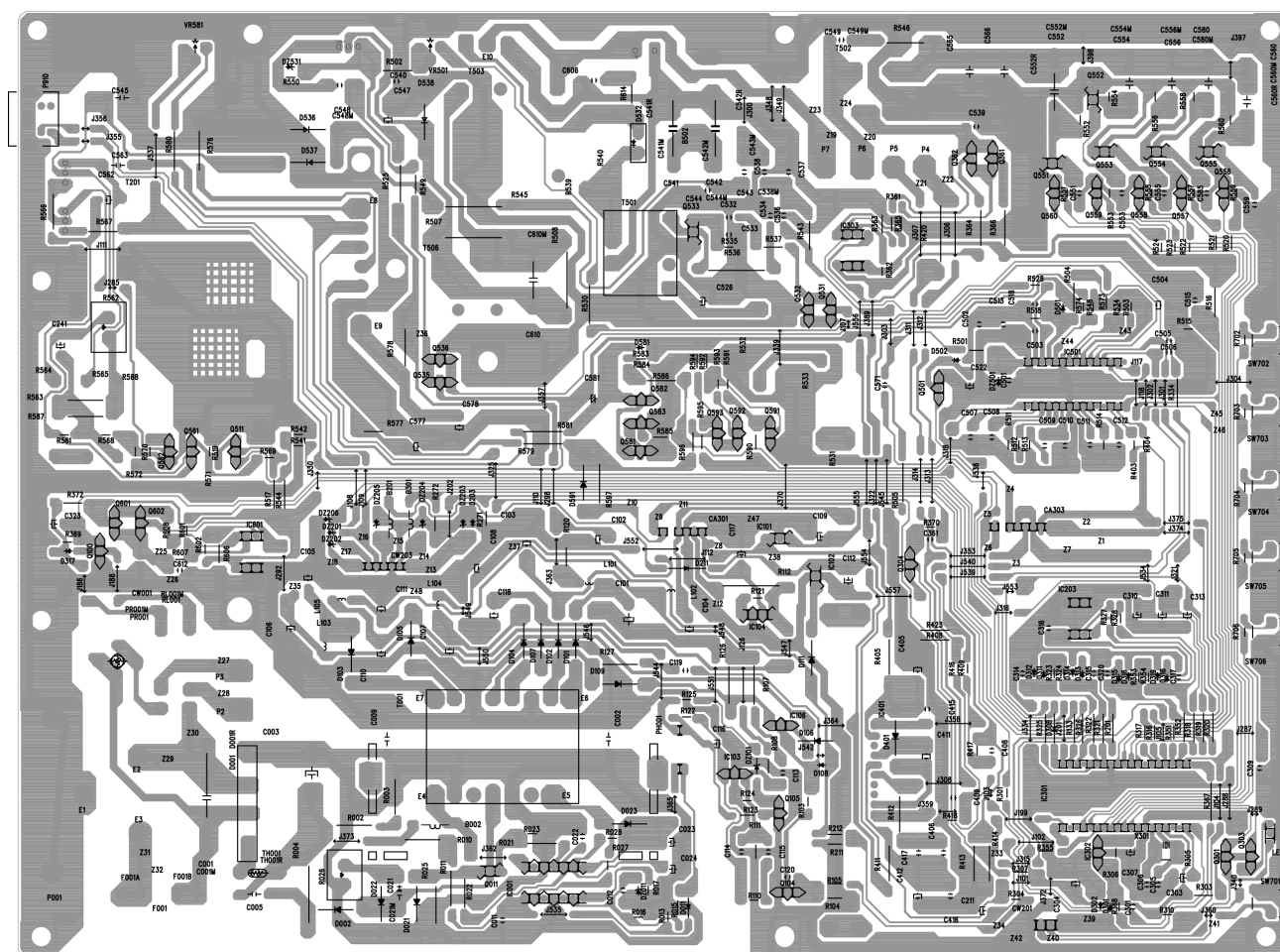


PCB LAYOUT

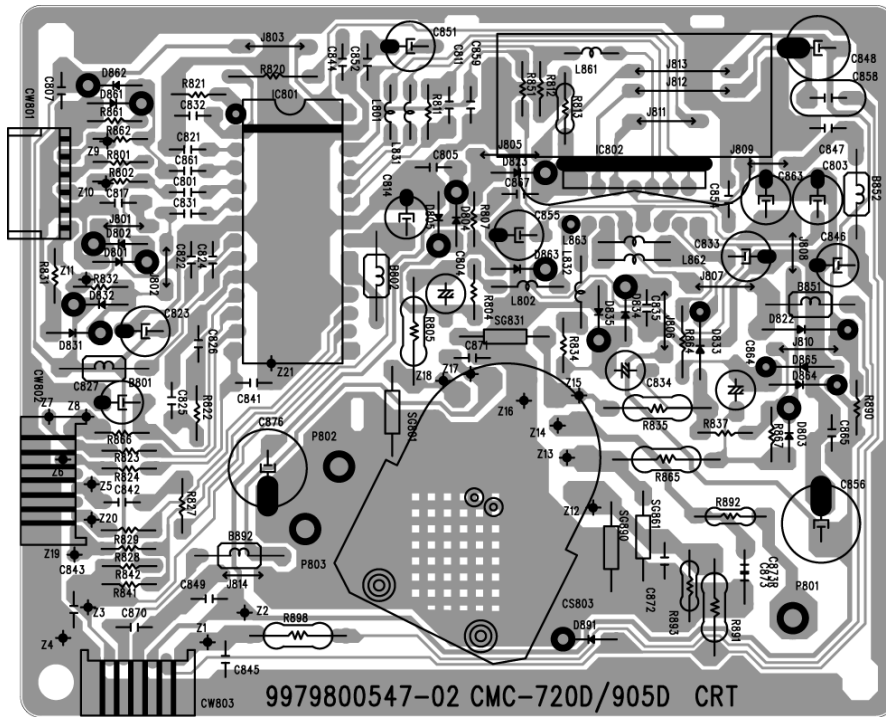
720D/905D/905S/905DF Main PCB Component Side



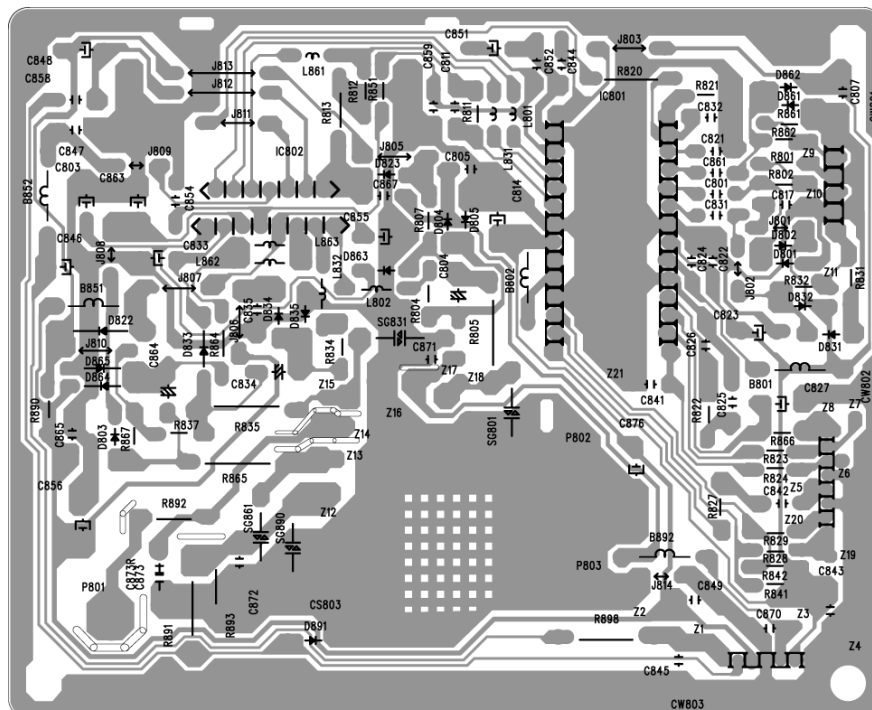
720D/905D/905S/905DF Main PCB Solder Side



720D/905D/905S/905DF CRT PCB Component Side



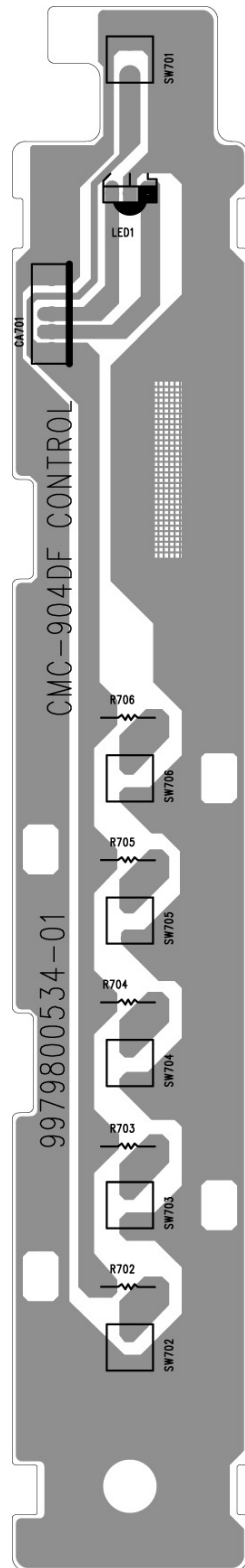
720D/905D/905S/905DF CRT PCB Solder Side



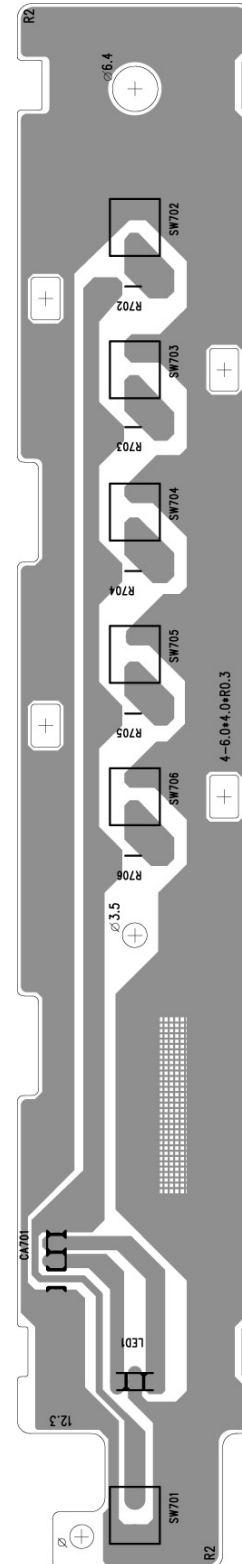
905D/905DS Control PCB Component Side

905D/905DS Control PCB Solder Side

905DF Control PCB Component Side

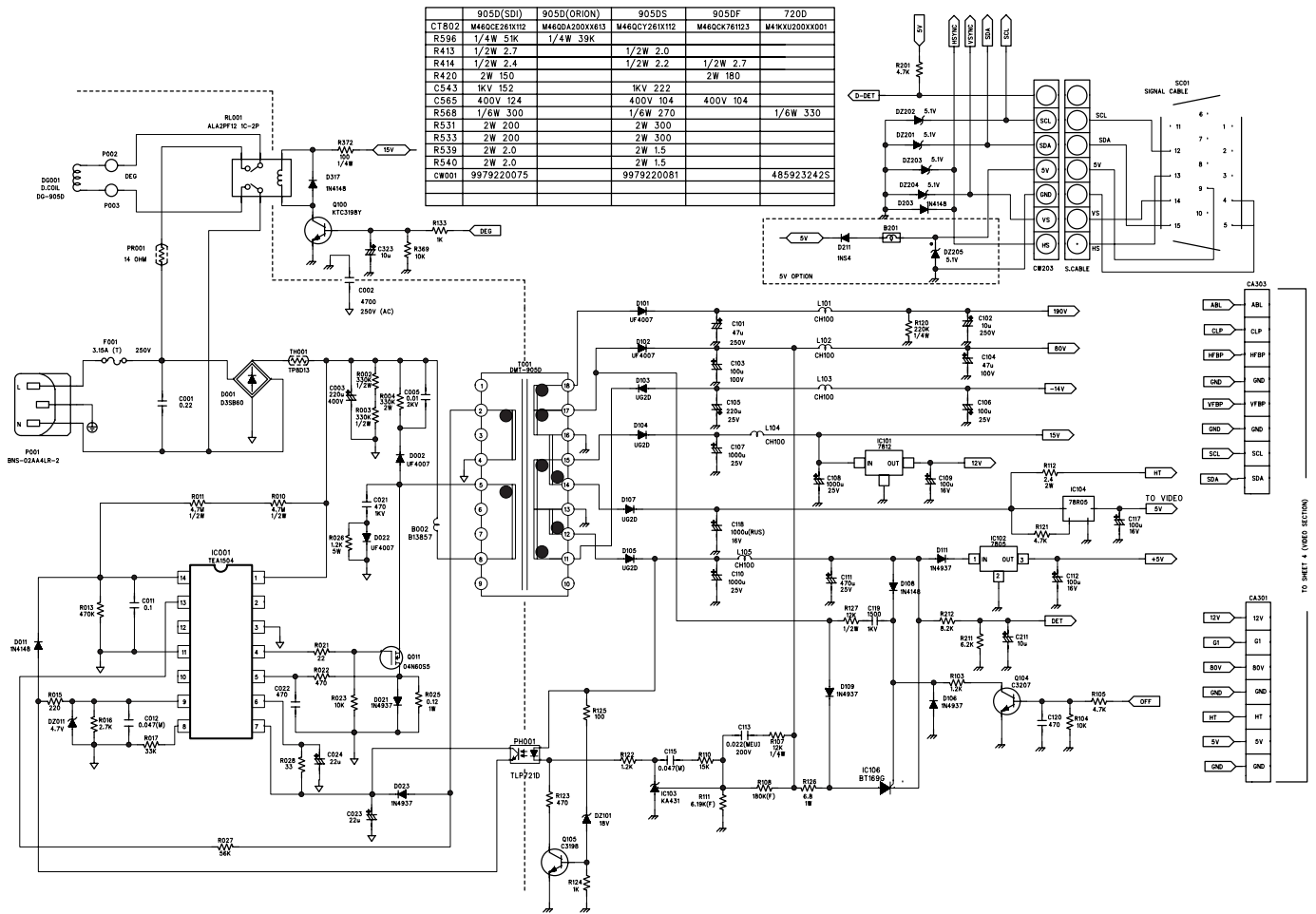


905DF Control PCB Solder Side

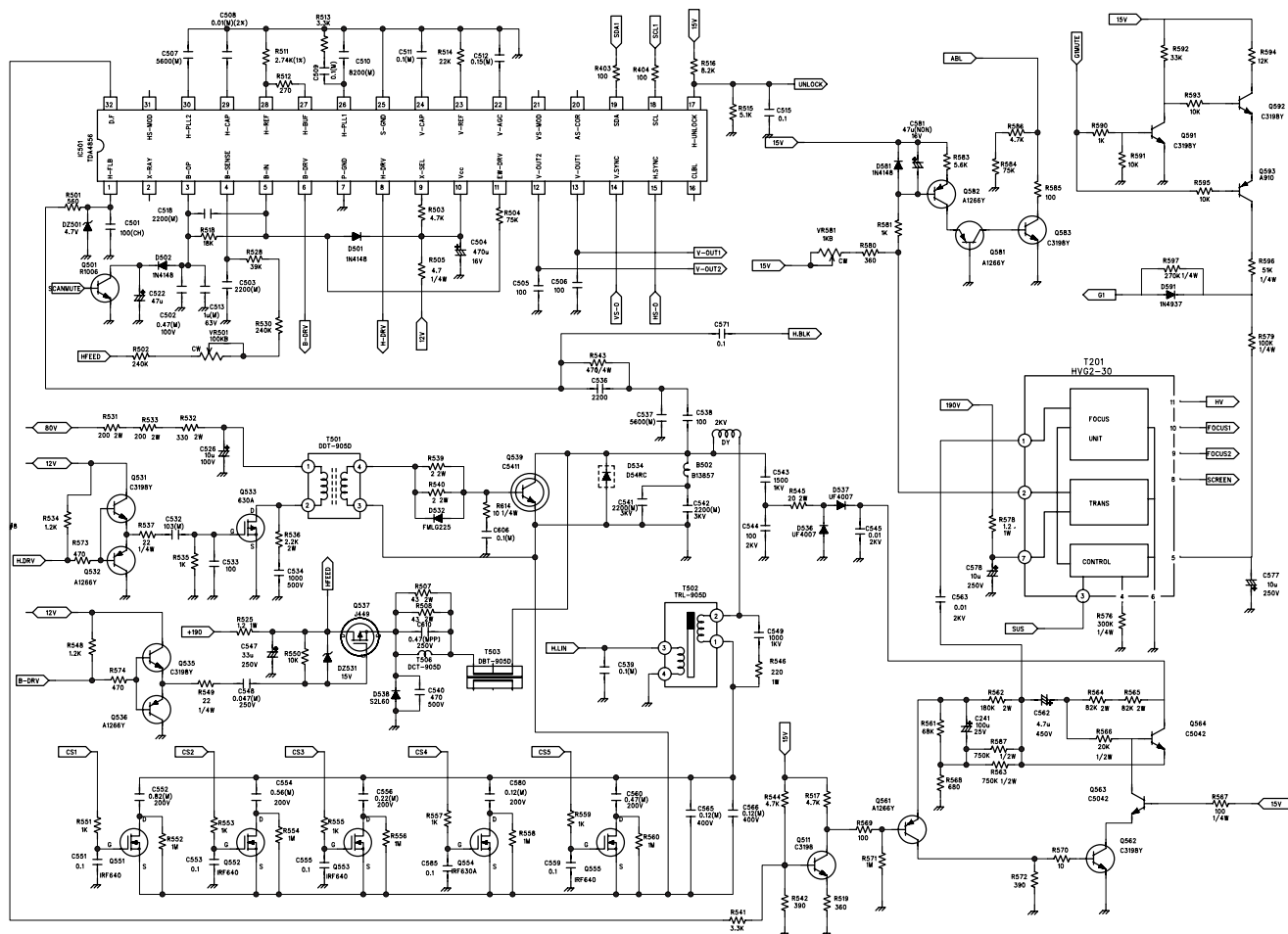


SCHEMATIC DIAGRAM

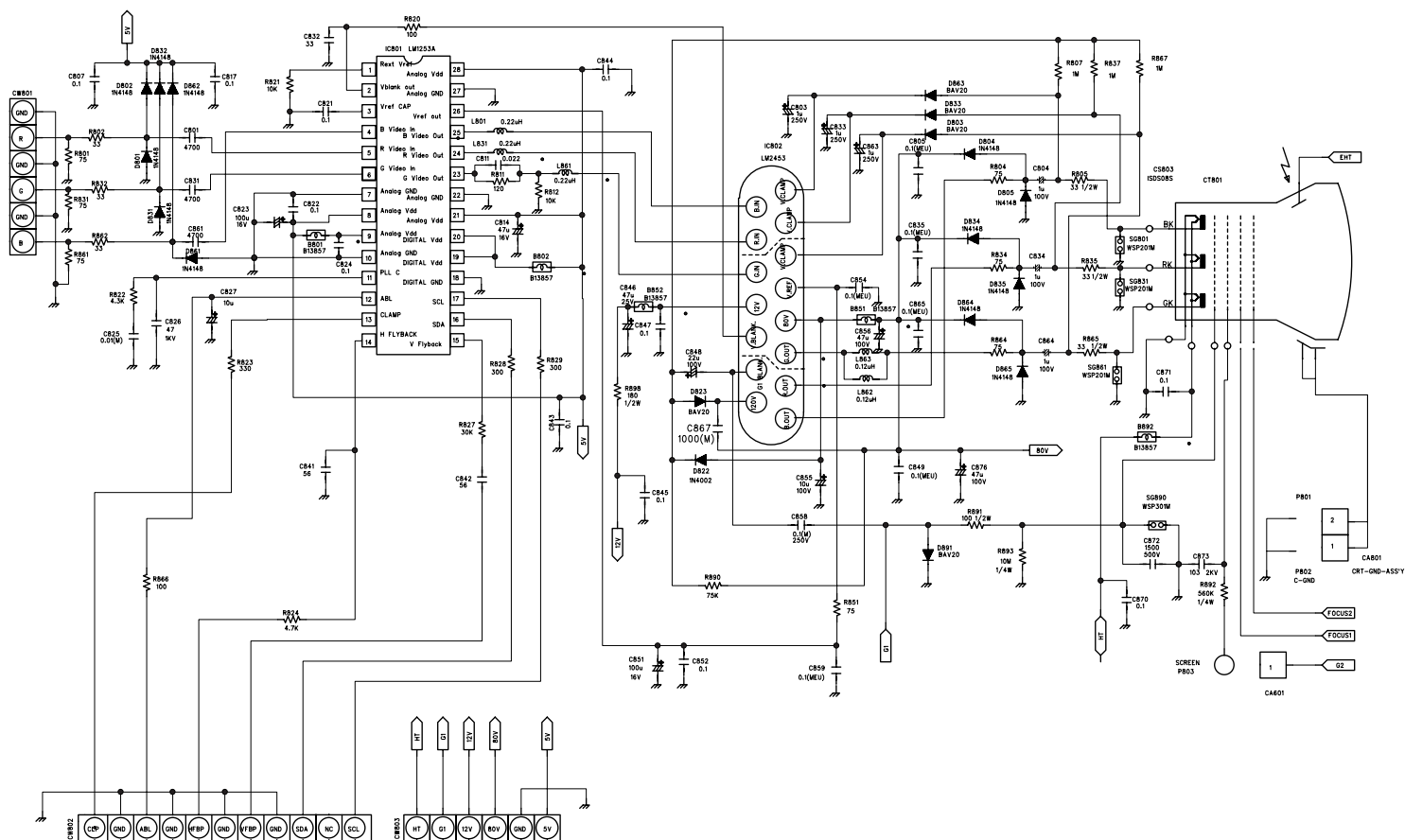
Power or Connection Section



Deflection & Hige Voltage Section

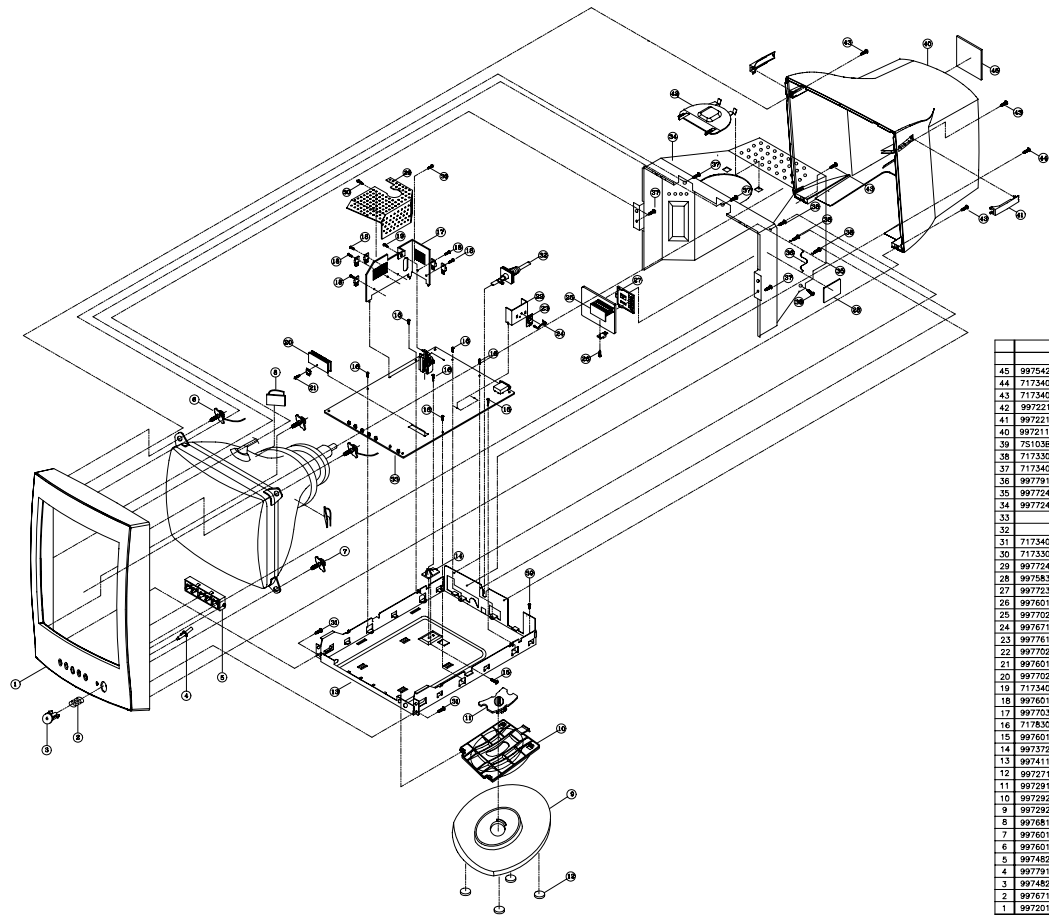


Video Section

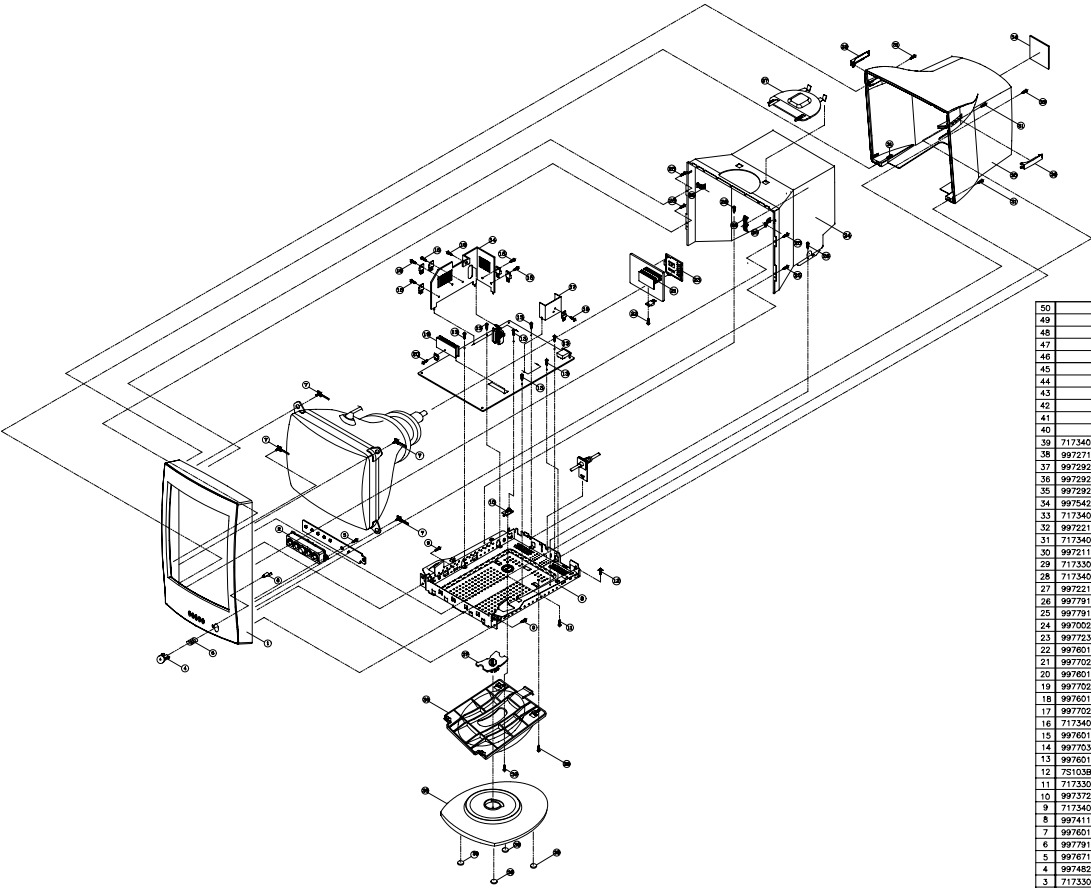


EXPLODED VIEW & MECHANICAL PARTS LIST

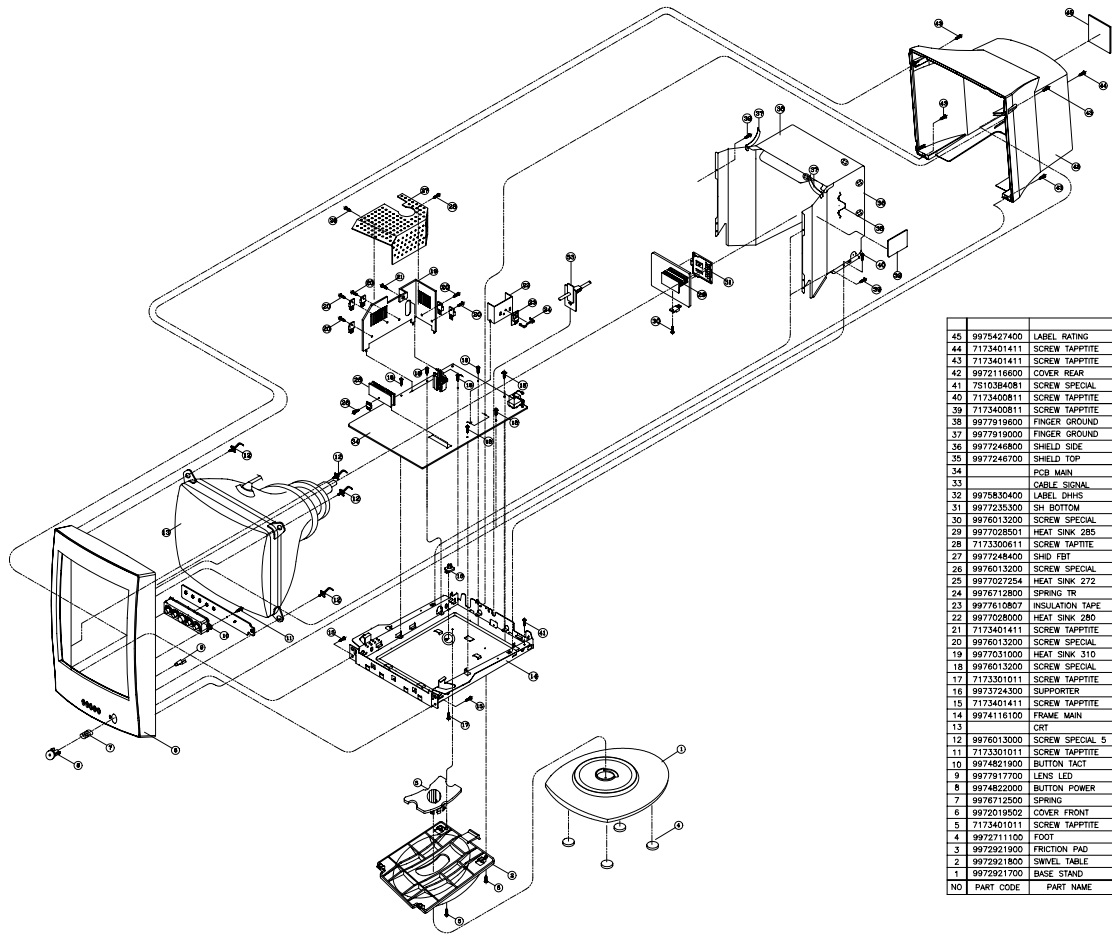
720D



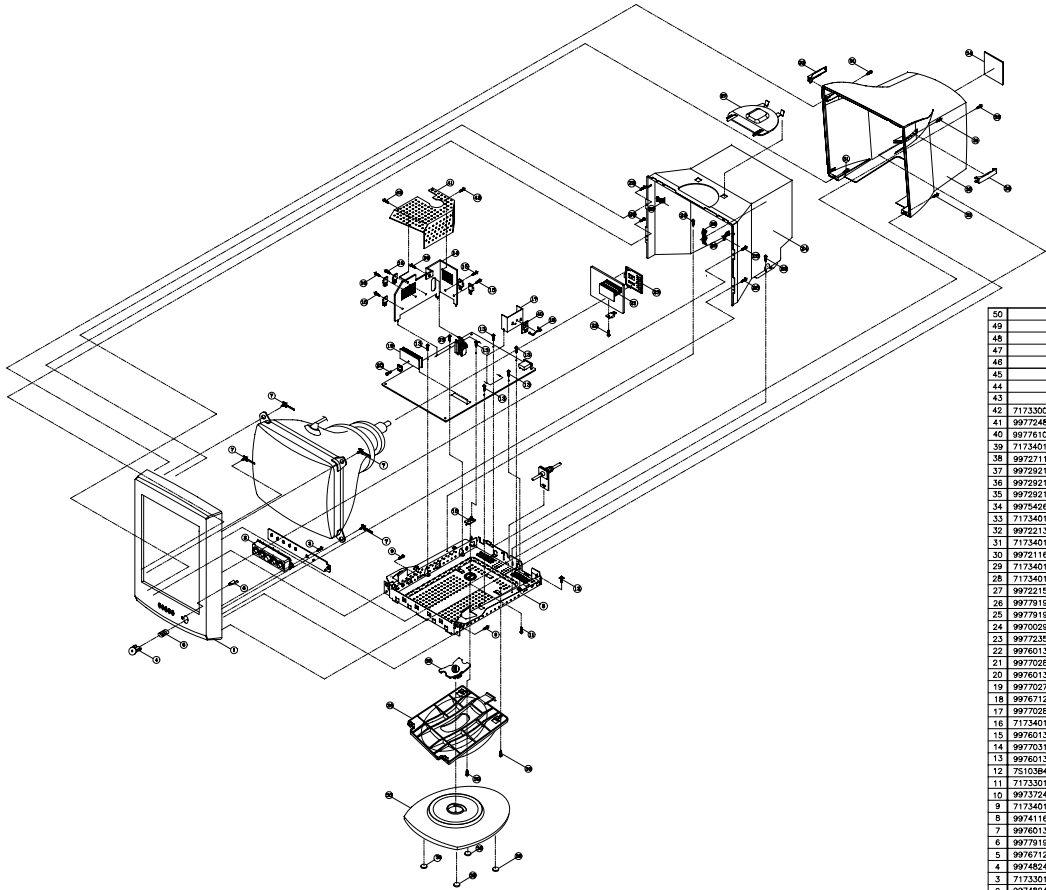
NO	PART CODE	PART NAME	QTY	DESCRIPTION	REMARK
45	9975426400	LABEL RATING	1	P/E T=0.1x0.8x78	
44	7173401411	SCREW TAPPTITE	1	T12 BIN 4x14 MFZN	FRONT + BKT REAR
43	7173401411	SCREW TAPPTITE	4	T12 BIN 4x14 MFZN	FRONT + REAR
42	9972214510	COVER ANODE CAP	1	FR-ABS GY-275A (94-HB)	
41	9972213801	COVER SCREW	2	ABS GY-275A (94-HB)	
40	9972116280	COVER REAR	1	HB-ABS GY-275A (94-HB)	
39	7510384081	SCREW SPECIAL	1	M/C BIN 4x8 MFZN	
38	7173300611	SCREW TAPPTITE	5	T12 BIN 3x6 MFZN	
37	7173401411	SCREW TAPPTITE	4	T12 BIN 4x14 MFZN	SHD ASSY + FRAME
36	9977919600	TRIMMER GROUND	1	FRSP T=0.25	FRONT + SHD ASSY
35	9977247100	SHIELD SIDE	1	A1050-H24 T=0.3 CMC-720D	
34	9977247000	SHIELD TOP	1	A1050-H24 T=0.3 CMC-720D	
33		PCB MAIN	1		
32		CABLE SIGNAL	1		
31	7173401411	SCREW TAPPTITE	2	T12 BIN 4x14 MFZN	FRONT + FRAME
30	7173300611	SCREW TAPPTITE	2	T12 BIN 3x6 MFZN	
29	9977248400	SHIELD FBT	1	AL T=0.5	
28	9975830400	LABEL DIMS	1	ART PAPER 68x45	
27	9977235300	SHIELD BOTTOM	1	SPTH T=0.3	
26	9976013200	SCREW SPECIAL	1	T12 BIN 3x10 MFZN PW(D.7)	
25	9977028500	HEAT SINK 285	1	A1050P-H24 H=38	
24	9976712800	SPRING TR	1	SUS 304 T=0.5	
23	9977610807	INSULATION TAPE	1	3M TRANSFER TAPE (13x18)	
22	9977028000	HEAT SINK 280	1	A1050P-H24 T=2.0	
21	9976013200	SCREW SPECIAL	1	T12 BIN 3x10 MFZN PW(D.7)	
20	9977027254	HEAT SINK 272	1	A1050P-H24 H=35	
19	7173401411	SCREW TAPPTITE	1	T12 BIN 4x12 MFZN	H/3 310 + FRF
18	9976013200	SCREW SPECIAL	5	T12 BIN 3x10 MFZN PW(D.7)	
17	9977031000	HEAT SINK 310	1	A1050P-H24 T=2.0	
16	7178301011	SCREW TAPPTITE	7	T12 BWS 3x10 MFZN	FRAME + PCB MAIN
15	9976012800	SCREW SPECIAL	1	T12 BIN 3x10 MFZN PW #12	FRAME MAIN + SUPPORT
14	9973724300	SUPPORTER PCB	1	FR-ABS	
13	9974116400	FRAME MAIN	1	E.G.J T=1.0	
12	9972711100	FOOT	4	RUBBER(WHT) 14	
11	9972917605	FRICION PAD	1	ABS/HPS ALLOY GY-275A (94-HB)	CMC-710B ??
10	9972921610	SWIVEL TABLE	1	HPS GY-275A (94-HB)	CMC-710B ??
9	9972921510	BASE STAND	1	HPS GY-275A (94-HB)	CMC-710B ??
8	9976811200	CLAMP MOUNT	2	NYLON 66 (DMMC-20)	COT YYY: TEL OOL
7	9976011800	SPECIAL SCREW 5	2	T12 HEX 5x21 MFZN SPW	FRONT + COT B/W
6	9976012900	SCREW SPECIAL	2	T12 HEX 5x21 SCREW+BAND	FRONT + COT TOP
5	9974822201	BUTTON TACT	1	ABS GY-275A (94-HB)	
4	9977917800	LENS LED	1	ACRYL (CLEAR)	
3	9974822101	BUTTON POWER	1	ABS GY-275A (94-HB)	
2	9976712200	SPRING	1	SUS #0.5	
1	9972019601	COVER FRONT	1	HB-ABS GY-275A (94-HB)	



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39	7173401011	SCREW TAP/TITE	2	TT2 BIN 4X10 MFZN
38	9972711100	FOOT	4	RUBBER(WHT) 14
37	9972921900	FRICTION PAD	1	ABS+PC ALLOY Ø=275A (94+H)
36	9972921900	SWIVEL TABLE	1	ABS ØY=275A (94+H)
35	9972921700	BASE STAND	1	ABS ØY=275A (94+H)
34	9975426200	LABEL RATING	1	P.E T=0.1*98*78
33	7173401411	SCREW TAP/TITE	1	TT2 BIN 4X14 MFZN
32	9972213600	COVER SCREW	2	FR-ABS ØY=275A
31	7173401411	SCREW TAP/TITE	4	TT2 BIN 4X14 MFZN
30	9972116100	COVER REAR	1	FR-ABS ØY=275A
29	7173300811	SCREW TAP/TITE	2	TT2 BIN 3X8 MFZN
28	7173401411	SCREW TAP/TITE	4	TT2 BIN 4X14 MFZN
27	9972150000	C/ANODE CAP	1	FR-ABS
26	9977919600	FINGER GROUND B	1	PBSP T=0.25
25	9977919000	FINGER GROUND A	2	PBSP T=0.25
24	9970029000	SH MAIN AS	1	AL T=0.3
23	9977235300	SH BOTTOM	1	SPFH-C T=0.3
22	9976013200	SCREW SPECIAL	1	TT2 BIN 3*10 MFZN PW(0.7)
21	9977028501	HEAT SINK 285	1	A1050P-H24 H=38
20	9976013200	SCREW SPECIAL	1	TT2 BIN 3*10 MFZN PW(0.7)
19	9977027204	HEAT SINK 272	1	A1050P-H24 H=38
18	9976013200	SCREW SPECIAL	1	TT2 BIN 3*10 MFZN PW(0.7)
17	9977028000	HEAT SINK 280	1	A1050P-H24 T=2.0
16	7173401411	SCREW TAP/TITE	1	TT2 BIN 4X14 MFZN
15	9976013200	SCREW SPECIAL	5	TT2 BIN 3*10 MFZN PW(0.7)
14	9977031000	HEAT SINK 310	1	A1050P-H24 T=2.0
13	9976013200	SCREW SPECIAL	7	TT2 BIN 3*10 MFZN PW(0.7)
12	751034081	SCREW SPECIAL	1	M/C BIN 4*8 MFZN
11	7173301011	SCREW TAP/TITE	1	TT2 BIN 3X10 MFZN
10	9973724300	SUPPORTER PCB	1	FR-ABS ØY=275A
9	7173401411	SCREW TAP/TITE	2	TT2 BIN 4X14 MFZN
8	9974116100	FRAME	1	E.G. T=1.0
7	9976013200	SCREW SPECIAL	4	TT2 BIN 3*10 MFZN SPW
6	9977917700	LENS LED	1	ACRYL (CLEAR)
5	9976712500	SPRING	1	SUS(0.50PIE)
4	9974822000	BUTTON POWER	1	FR-ABS ØY=275A
3	7173301011	SCREW TAP/TITE	1	TT2 BIN 3X10 MFZN
2	9974821900	BUTTON TACT	1	FR-ABS ØY=275A
1	9972019500	COVER FRONT	1	FR-ABS ØY=275A
NO	PART CODE	PART NAME	QTY	DESCRIPTION
				REMARK



45	9975427400	LABEL RATING	1	P-E T=0.1X38X78	
44	7173401411	SCREW TAPPTITE	1	TT2 BIN 4X14 MFZN	REAR + BKT REAR
43	7173401411	SCREW TAPPTITE	4	TT2 BIN 4X14 MFZN	FRONT + REAR
42	9972116600	COVER REAR	1	FR-ABS GY-275A	
41	7510384081	SCREW SPECIAL	1	M/C BIN 4X8 MFZN	BKT REAR + MAIN ODD
40	7173400811	SCREW TAPPTITE	2	TT2 BIN 4X8 MFZN	FRAME + SHD ASSY
39	7173400811	SCREW TAPPTITE	4	TT2 BIN 4X8 MFZN	FRONT + SHD ASSY
38	9977019500	FINGER GROUND	1	PBSP T=0.25	REAR
37	9977019500	FINGER GROUND	2	PBSP T=0.25	SIDE
36	9977246800	SHIELD SIDE	1	AL T=0.5	SHD ASSY + SHD BKT
35	9977246700	SHIELD TOP	1	AL T=0.5	SHD ASSY
34		PCB MAIN	1		
33		CABLE SIGNAL	1		
32	9975830400	LABEL DHHS	1	ART PAPER 68*45	
31	9977235300	SH BOTTOM	1	SPFH-C T=0.3	14897
30	9976013200	SCREW SPECIAL	1	TT2 BIN 3X10 MFZN PW(D.7)	
29	9977028501	HEAT SINK 280	1	A1050P-H24 H=38	
28	7173300611	SCREW TAPPTITE	2	TT2 BIN 3X8 MFZN	H/280 + SHD 484
27	9977248400	SHD FBT	1	AL T=0.5	
26	9976013200	SCREW SPECIAL	1	TT2 BIN 3X10 MFZN PW(D.7)	
25	9977027254	HEAT SINK 272	1	A1050P-H24 H=35	SUP H/S : 997378900
24	9976128807	INSULATION TAPE	1	SUS 304 T=0.5	
23	9977610807	INSULATION TAPE	1	3M TRANSFER TAPE(13X18)	
22	9977028500	HEAT SINK 280	1	A1050P-H24 T=2.0	
21	7173401411	SCREW TAPPTITE	1	TT2 BIN 4X14 MFZN	H/S 3104FBT
20	9976013200	SCREW SPECIAL	5	TT2 BIN 3X10 MFZN PW(D.7)	H/S 218 + 2X105,104,105
19	9977031000	HEAT SINK 310	1	A1050P-H24 T=2.0	
18	9976013200	SCREW SPECIAL	7	TT2 BIN 3X10 MFZN PW(D.7)	FRAME+MAIN PCB
17	7173351011	SCREW TAPPTITE	1	TT2 BIN 3X10 MFZN	FRAME SHD + SUPPORTER
16	9977324300	SUPPORTER	1	FR-ABS GY-275A	
15	7173401411	SCREW TAPPTITE	2	TT2 BIN 4X14 MFZN	FRONT + FRM A
14	9974116100	FRAME MAIN	1	E.G.I T=1.0	
13		CR1	1		(SHORT Length)
12	9976013000	SCREW SPECIAL 5	4	TT2 HEX 5X21 MFZN+RAND	FRONT + COT
11	7173301011	SCREW TAPPTITE	2	TT2 BIN 3X10 MFZN	PCB+BUTTON TACT+REAR
10	9974821900	BUTTON TACT	1	FR-ABS GY-275A	
9	9977917700	LENS LED	1	ACRIL (CLEAR)	
8	9974822000	BUTTON POWER	1	FR-ABS GY-275A	
7	9976125500	SPRING	1	SUS(0.5PH)	9010 Y7
6	9972019502	COVER FRONT	1	FR-ABS GY-275A	
5	7173401011	SCREW TAPPTITE	2	TT2 BIN 4X10 MFZN	STAND AS + FRAME B
4	9972111000	FOOT	4	RUBBER(HT) 14	
3	9972921900	FRICTION PAD	1	ABS+PC ALLOY GY-275A (94HB)	
2	9972921800	SWIVEL TABLE	1	ABS GY-275A (94-HB)	CMC-9010 Y7
1	9972921700	BASE STAND	1	ABS GY-275A (94-HB)	CMC-9010 Y7
NO	PART CODE	PART NAME	QTY	DESCRIPTION	REMARK



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42	7173300611	SCREW TAPPTITE	2	TT2 BIN 3X6 MFZN
41	9977248400	SH FBT	1	AL T=0.5
40	9977610803	INSULATOR	1	SILICON RUBBER T=0.3*25*20
39	7173401011	SCREW TAPPTITE	2	TT2 BIN 4X10 MFZN
38	9972711100	TOOL	4	RUBBERS
37	9972921900	FRICTION PAD	1	ABS+PC ALLOY QY-QY-275A (94HB)
36	9972921800	SWIVEL TABLE	1	ABS QY-275A (94-HB)
35	9972921700	BASE STAND	1	ABS QY-275A (94-HB)
34	9975426200	LABEL RATING	1	P.E T=0.1*98*78
33	7173401411	SCREW TAPPTITE	1	TT2 BIN 4X14 MFZN
32	9972213600	COVER SCREW	2	ABS QY-275A (94-HB)
31	7173401411	SCREW TAPPTITE	4	TT2 BIN 4X14 MFZN
30	99722116100	COVER REAR	1	ABS QY-275A (94-HB)
29	7173401411	SCREW TAPPTITE	2	TT2 BIN 4X14 MFZN
28	7173401411	SCREW TAPPTITE	4	TT2 BIN 4X14 MFZN
27	9972215000	C/ANODE CAP	1	FR-ABS
26	9977319600	FINGER GROUND B	1	PBSP T=0.25
25	9977319000	FINGER GROUND A	2	PBSP T=0.25
24	9970029000	SH MAIN AS	1	AL T=0.5
23	9977235300	SH BOTTOM	1	SPH+C T=0.3
22	9976013200	SCREW SPECIAL	1	TT2 BIN 3*10 MFZN PW(D.7)
21	9977028501	HEAT SINK 285	1	A1050P-H24 H=35
20	9976013200	SCREW SPECIAL	1	TT2 BIN 3*10 MFZN PW(D.7)
19	9977027254	HEAT SINK 272	1	A1050P-H24 H=35
18	9976712800	SPRING TR	1	SUS 304 T=0.5
17	9977028000	HEAT SINK 280	1	A1050P-H24 T=2.0
16	7173401411	SCREW TAPPTITE	1	TT2 BIN 4X14 MFZN
15	9976013200	SCREW SPECIAL	5	TT2 BIN 3*10 MFZN PW(D.7)
14	9977031000	HEAT SINK 310	1	A1050P-H24 T=2.0
13	9976013200	SCREW SPECIAL	7	TT2 BIN 3*10 MFZN PW(D.7)
12	7510384081	SCREW SPECIAL	1	M/C BIN 4*8 MFZN
11	7173301011	SCREW TAPPTITE	1	TT2 BIN 3X10 MFZN
10	9973724300	SUPPORTER PCB	1	FR-ABS QY-275A
9	7173401411	SCREW TAPPTITE	2	TT2 BIN 4X14 MFZN
8	9974116100	FRAME	1	E.G.I T=1.0
7	9976013000	SCREW SPECIAL	4	TT2 BIN 3*21 MFZN SPW
6	9977319600	LENS LED	1	ACRYL (CLEAR)
5	9976712500	SPRING	1	SUS(0.5PH)
4	9974824400	BUTTON POWER	1	ABS QY-275A (94-HB)
3	7173301011	SCREW TAPPTITE	1	TT2 BIN 3X10 MFZN
2	9974824300	BUTTON TACT	1	ABS QY-275A (94-HB)
1	9972020800	COVER FRONT	1	HB-ABS QY-275A
NO	PART CODE	PART NAME	Q'TY	DESCRIPTION
				REMARK

INFORMATION OF PART DESCRIPTION

Important Safety Notice

Components identified with the International Symbol have special characteristics important for safety. When replacing any components, use only manufacturer's specified parts.

Abbreviation of Description

RESISTOR Description

Allowance	
F	$\pm 1\%$
J	$\pm 5\%$
K	$\pm 10\%$
M	$\pm 20\%$
G	$\pm 2\%$

Example:

Fig & Index	Part No	Description
R101	Resistors	
	RD-4Z820J	Carbon: 82J
R102	RD-4Z201J	Carbon 1/4W-200J

CAPACITOR Description

Allowance	
C	$\pm 0.25\text{pF}$
D	$\pm 0.5\%$
F	$\pm 1\text{pF}$
J	$\pm 5\%$
K	$\pm 10\%$
P	$\pm 100\% \sim 0\%$
Z	$\pm 80\% \sim -$

Example:

Fig & Index	Part No	Description
C102	Capacitors	
	CCXF1H104Z	Ceramic 50V 0.1 μF Z
	CCXB1H331K	Ceramic 50V 330PF K
C105	CMXM 2A224J	MYLAR 100V 0.22 μF J

ELECTRICAL PARTS LIST

The components identified by mark $\triangle$ have special characteristics important for safety and x-ray radiation. These should be replaced only with the types specified in the parts list.

LOC	PART-CODE	PART-NAME	PART-DESC	NOTE
00020	W3475N731-	CORD POWER	3 H05VV-F 3X0.75 1.8 IV	<u>720D only</u>
<u>00160</u>	<u>5M20000003</u>	<u>COIL TILT</u>	<u>TC-17B-1</u>	
B002	5PB13857--	COIL BEAD	BI3857(AXIAL)	
B301	5PB13857--	COIL BEAD	BI3857(AXIAL)	
B502	5PB13857--	COIL BEAD	BI3857(AXIAL)	
B801	5PB13857--	COIL BEAD	BI3857(AXIAL)	
B802	5PB13857--	COIL BEAD	BI3857(AXIAL)	
B851	5PB13857--	COIL BEAD	BI3857(AXIAL)	
B852	5PB13857--	COIL BEAD	BI3857(AXIAL)	
B892	5PB13857--	COIL BEAD	BI3857(AXIAL)	
! C001	CL1UC3224M	C LINE ACROSS	0.22MF 1J(UCVSNDF/SV)+Q/O	
! C002	CH1FDF472M	C CERA AC	2.5KV 4700PF M AC250V	
C003	CEYP2G221Z	C ELECTRO	400V SMH 220MF (25.4*40)	
C005	CCXE3D103P	C CERA	HIKE 2KV 0.01MF P	
C011	CCXF1H104Z	C CERA	50V F 0.1MF Z	
C012	CMXM2A473J	C MYLAR	100V 0.047MF J (TP)	
C021	CCXB3A471K	C CERA	1KV B 470PF K (T)	
C022	CCXB1H471K	C CERA	50V B 470PF K (TAPPING)	
C023	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP	
C024	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP	
C101	CEXF2E470V	C ELECTRO	250V RSS 47MF (16X25) TP	
C102	CEXF2E100V	C ELECTRO	250V RSS 10MF (10X20) TP	
C103	CEXF2A101V	C ELECTRO	100V RSS 100MF (13X20) TP	
C104	CEXF2A470V	C ELECTRO	100V RSS 47MF (10X16) TP	
C105	CEXF1E221V	C ELECTRO	25V RSS 220MF (8X11.5) TP	
C106	CEXF1E101V	C ELECTRO	25V RSS 100MF (6.3X11) TP	
C107	CEXF1E102V	C ELECTRO	25V RSS 1000MF (13X20) BK	
C108	CEXF1E102V	C ELECTRO	25V RSS 1000MF (13X20) BK	
C109	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
C110	CEXF1E102V	C ELECTRO	25V RSS 1000MF (13X20) BK	
C111	CEXF1E471V	C ELECTRO	25V RSS 470MF (10X16) TP	
C112	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
C113	CMXL2E223J	C MYLAR	MEU 250V 0.022MF J(TP)	
C115	CMXM2A473J	C MYLAR	100V 0.047MF J (TP)	
C117	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
C118	CEXF1C102C	C ELECTRO	16V RUS 1000MF (10X20) TP	
C119	CCXB3A152K	C CERA	1KV HIKB 1500PF K	
C120	CCXB1H471K	C CERA	50V B 470PF K (TAPPING)	
C211	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
C241	CEXF1E101V	C ELECTRO	25V RSS 100MF (6.3X11) TP	
C301	CCXB1H221K	C CERA	50V B 220PF K (TAPPING)	
C303	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C304	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)BK	
C305	CXCH1H150J	C CERA	50V CH 15PF J (TAPPING)	
C306	CXCH1H150J	C CERA	50V CH 15PF J (TAPPING)	
C307	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C309	CCXB1H102K	C CERA	50V B 1000PF K (TAPPING)	
C310	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	

LOC	PART-CODE	PART-NAME	PART-DESC	NOTE
C311	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C313	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C314	CCXB1H221K	C CERA	50V B 220PF K (TAPPING)	
C315	CCXB1H221K	C CERA	50V B 220PF K (TAPPING)	
C316	CCXF1H104Z	C CERA	50V F 0.1MF Z	
C317	CCXB1H221K	C CERA	50V B 220PF K (TAPPING)	
C320	CCXB1H221K	C CERA	50V B 220PF K (TAPPING)	
C323	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
C361	CXCH1H221J	C CERA	50V CH 220PF J (TAPPING)	
C405	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)BK	
C406	CMXL1J105J	C MYLAR	MEU 63V 1MF J	
C408	CMXM2A562J	C MYLAR	100V 5600PF J (TP)	
C409	CMXM2A272J	C MYLAR	100V 2700PF J (TP)	
C411	CEXF1H221V	C ELECTRO	50V RSS 220MF (10X16) TP	
C412	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)BK	
C415	CMXL1J105J	C MYLAR	MEU 63V 1MF J	
C416	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
C417	CMXL2A474J	C MYLAR	MEU 100V 0.47MF J	
C501	CXCH1H101J	C CERA	50V CH 100PF J (TAPPING)	
C502	CMXL2A474J	C MYLAR	MEU 100V 0.47MF J	
C503	CMXM2A222J	C MYLAR	100V 2200PF J (TP)	
C504	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)BK	
C505	CCXB1H101K	C CERA	50V B 100PF K (TAPPING)	
C506	CCXB1H101K	C CERA	50V B 100PF K (TAPPING)	
C507	CMXM2A562J	C MYLAR	100V 5600PF J (TP)	
C508	CMXM2A103G	C MYLAR	100V 0.01MF G (TP)	
C509	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
C510	CMXM2A822J	C MYLAR	100V 8200PF J (TP)	
C511	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
C512	CMXM2A154J	C MYLAR	100V 0.15MF J (TP)	
C513	CMXL1J105J	C MYLAR	MEU 63V 1MF J	
C515	CCXF1H104Z	C CERA	50V F 0.1MF Z	
C518	CMXM2A222J	C MYLAR	100V 2200PF J (TP)	
C522	CEXF1H470V	C ELECTRO	50V RSS 47MF (6.3X11) TP	
C526	CEXF2A100V	C ELECTRO	100V RSS 10MF (6.3X11) TP	
C532	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)	
C533	CCXB1H101K	C CERA	50V B 100PF K (TAPPING)	
C534	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)	
C536	CCXB1H222K	C CERA	50V B 2200PF K (TAPPING)	
C537	CMXM2A562J	C MYLAR	100V 5600PF J (TP)	
C538	CXSL3D101K	C CERA	2KV SL 100PF K(TP)	
C539	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
C540	CCXB2H471K	C CERA	500V B 470PF K (TAPPING)	
! C541	CMXH3L222J	C MYLAR	BUP 3KV 2200PF J	
! C542	CMXH3L222J	C MYLAR	BUP 3KV 2200PF J	
C543	CCXB3A102K	C CERA	1KV B 1000PF K (TAPPING)	720D only
C543	CCXB3A152K	C CERA	1KV HIKB 1500PF K	905D,905DF only
C543	CCXB3A222K	C CERA	HIKB 1KV 2200PF K	905DS only
C544	CXSL3D101K	C CERA	2KV SL 100PF K(TP)	
C545	CCXE3D103P	C CERA	HIKE 2KV 0.01MF P	

LOC	PART-CODE	PART-NAME	PART-DESC	NOTE
C547	CEXF2E330V	C ELECTRO	250V RSS 33MF (13X25) TP	905DS,905DF only 720D,905D only
C548	CMXL2E473J	C MYLAR	MEU 250V 0.047MF J(TP)	
C549	CCXB3A102K	C CERA	1KV B 1000PF K (TAPPING)	
C551	CCXF1H104Z	C CERA	50V F 0.1MF Z	
C552	CMYF2D824J	C MYLAR	MPP 200V 0.82MF J	
C553	CCXF1H104Z	C CERA	50V F 0.1MF Z	
C554	CMYF2D564J	C MYLAR	200V MPP 0.56MF J	
C555	CCXF1H104Z	C CERA	50V F 0.1MF Z	
C556	CMXF2D224J	C MYLAR	MPP 200V 0.22MF J	
C559	CCXF1H104Z	C CERA	50V F 0.1MF Z	
C560	CMXF2D474J	C MYLAR	MPP 200V 0.47MF J	
C562	CEXN2W479C	C ELECTRO	KMG 450V 4.7MF 10*20	
C563	CCXE3D103P	C CERA	HIKE 2KV 0.01MF P	
<u>C565</u>	<u>CMXF2G104J</u>	<u>C MYLAR</u>	<u>MPP 400V 0.1MF J</u>	
<u>C565</u>	<u>CMXF2G124J</u>	<u>C MYLAR</u>	<u>MPP 400V 0.12MF J</u>	
C566	CMXF2G124J	C MYLAR	MPP 400V 0.12MF J	
C571	CCXF1H104Z	C CERA	50V F 0.1MF Z	
C577	CEXF2E100V	C ELECTRO	250V RSS 10MF (10X20) TP	
C578	CEXF2E100V	C ELECTRO	250V RSS 10MF (10X20) TP	
C580	CMXF2D124J	C MYLAR	MPP 200V 0.12MF J	
C581	CEXD1C470F	C ELECTRO	16V RND 47MF (8X11.5) TP	
C585	CCXF1H104Z	C CERA	50V F 0.1MF Z	
C606	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
C610	CMXF2D474J	C MYLAR	MPP 200V 0.47MF J	
C612	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
C801	CCXB1H472K	C CERA	50V B 4700PF K (TAPPING)	
C803	CEXF2E109V	C ELECTRO	250V RSS 1MF (6.3X11)	
C804	CEXD2A109F	C ELECTRO	100V RND 1MF(5*11) TP	
C805	CMXL2A104J	C MYLAR	MEU 100V 0.1MF J	
C807	CCXF1H104Z	C CERA	50V F 0.1MF Z	
C811	CCXF1H223Z	C CERA	50V F 0.022MF Z (TAPPING)	
C814	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP	
C817	CCXF1H104Z	C CERA	50V F 0.1MF Z	
C821	CCXF1H104Z	C CERA	50V F 0.1MF Z	
C822	CCXF1H104Z	C CERA	50V F 0.1MF Z	
C823	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
C824	CCXF1H104Z	C CERA	50V F 0.1MF Z	
C825	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)	
C826	CXSL3A470K	C CERA	1KV SL 47PF K (TP)	
C827	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
C831	CCXB1H472K	C CERA	50V B 4700PF K (TAPPING)	
C832	CXCH1H330J	C CERA	50V CH 33PF J (TAPPING)	
C833	CEXF2E109V	C ELECTRO	250V RSS 1MF (6.3X11)	
C834	CEXD2A109F	C ELECTRO	100V RND 1MF(5*11) TP	
C835	CMXL2A104J	C MYLAR	MEU 100V 0.1MF J	
C841	CXCH1H560J	C CERA	50V CH 56PF J (TAPPING)	
C842	CXCH1H560J	C CERA	50V CH 56PF J (TAPPING)	
C843	CCXF1H104Z	C CERA	50V F 0.1MF Z	
C844	CCXF1H104Z	C CERA	50V F 0.1MF Z	
C845	CCXF1H104Z	C CERA	50V F 0.1MF Z	

LOC	PART-CODE	PART-NAME	PART-DESC	NOTE
C846	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	
C847	CCXF1H104Z	C CERA	50V F 0.1MF Z	
C848	CEXF2A220V	C ELECTRO	100V RSS 22MF (8*11.5) TP	
C849	CMXL2A104J	C MYLAR	MEU 100V 0.1MF J	
C851	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
C852	CCXF1H104Z	C CERA	50V F 0.1MF Z	
C854	CMXL2A104J	C MYLAR	MEU 100V 0.1MF J	
C855	CEXF2A100V	C ELECTRO	100V RSS 10MF (6.3X11) TP	
C856	CEXF2A470V	C ELECTRO	100V RSS 47MF (10X16) TP	
C858	CMXL2E104J	C MYLAR	MEU 250V 0.1MF J	
C859	CMXL2A104J	C MYLAR	MEU 100V 0.1MF J	
C861	CCXB1H472K	C CERA	50V B 4700PF K (TAPPING)	
C863	CEXF2E109V	C ELECTRO	250V RSS 1MF (6.3X11)	
C864	CEXD2A109F	C ELECTRO	100V RND 1MF(5*11) TP	
C865	CMXL2A104J	C MYLAR	MEU 100V 0.1MF J	
C867	CMXM2A102J	C MYLAR	100V 1000PF J (TP)	
C870	CCXF1H104Z	C CERA	50V F 0.1MF Z	
C871	CCXF1H104Z	C CERA	50V F 0.1MF Z	
C872	CCXB2H152K	C CERA	500V B 1500PF K (TAPPING)	
C873	CCXE3D103P	C CERA	HIKE 2KV 0.01MF P	
C876	CEXF2A470V	C ELECTRO	100V RSS 47MF (10X16) TP	
CA301	9970770029	CONN AS	SMH200-07+YBNH200-08=350	
CA303	9970780033	CONN AS	SMH200-08+YBNH200-09=500	
CA701	9970740037	CONN AS	YMH250-4+1007#24=250	905D,905DS,905DF only
CG01	9970710246	CRT GND AS	0.16*3*16+BL102NG=740	905D,905DF only
CS803	9979300007	SOCKET CRT	ISDS08S	
CT002	9970710246	CRT GND AS	0.16*3*16+BL102NG=740	905DS only
CT002	9970710251	CRT GND AS	0.16*3*16+BL102NG=730	720D only
! CT802	9979617042	CDT	M41KXU200XX061 (0.26)	720D only
! CT802	9979619007	CDT	M46QCE261X112(T4)	905D only
! CT802	9979619008	CDT	M46QCY261X112(SHORT)	905DS only
! CT802	9979619011	CDT	M46QCK761X123 (DF)	905DF only
CW001	485923242S	CONN WAFER	5267-03A STICK TYPE	720D only
CW001	9979220075	CONN WAFER	B3B-EH-A ST(TILT)	905D,905DS,905DF only
CW201	485923252S	CONN WAFER	5267-04A STICK TYPE	905D,905DS,905DF only
CW203	9979220102	CONN WAFER	SMW200-07 (ST)	
CW801	9979220021	CONN WAFER	SMAW250-06 (ANGLE)	
CW802	9979220089	CONN WAFER	SMAW200-08 (ANGLE)	
CW803	9979220088	CONN WAFER	SMAW200-07 (ANGLE)	
D001	DD3SBA60--	DIODE	D3SBA60	
D002	DUF4007---	DIODE	UF4007	
D011	DZN4148---	DIODE	1N4148 AUTO 52MM	
D021	D1N4937GP-	DIODE	1N4937GP (TAPPING)	
D022	DUF4007---	DIODE	UF4007	
D023	D1N4937GP-	DIODE	1N4937GP (TAPPING)	
D101	DUF4007---	DIODE	UF4007	
D102	DUF4007---	DIODE	UF4007	
D103	DUG2D-----	DIODE	UG2D 200V 2A	
D104	DUG2D-----	DIODE	UG2D 200V 2A	
D105	DUG2D-----	DIODE	UG2D 200V 2A	

LOC	PART-CODE	PART-NAME	PART-DESC	NOTE
D106	D1N4937GP-	DIODE	1N4937GP (TAPPING)	
D107	DUG2D----	DIODE	UG2D 200V 2A	
D108	DZN4148---	DIODE	1N4148 AUTO 52MM	
D109	D1N4937GP-	DIODE	1N4937GP (TAPPING)	
D111	D1N4937GP-	DIODE	1N4937GP (TAPPING)	
D203	DZN4148---	DIODE	1N4148 AUTO 52MM	
D301	DZN4148---	DIODE	1N4148 AUTO 52MM	
D302	DZN4148---	DIODE	1N4148 AUTO 52MM	
D308	DZN4148---	DIODE	1N4148 AUTO 52MM	
D311	DZN4148---	DIODE	1N4148 AUTO 52MM	
D312	DZN4148---	DIODE	1N4148 AUTO 52MM	
D313	DZN4148---	DIODE	1N4148 AUTO 52MM	
D314	DZN4148---	DIODE	1N4148 AUTO 52MM	
D315	DZN4148---	DIODE	1N4148 AUTO 52MM	
D316	DZN4148---	DIODE	1N4148 AUTO 52MM	
D317	DZN4148---	DIODE	1N4148 AUTO 52MM	
D318	DZN4148---	DIODE	1N4148 AUTO 52MM	
D319	DZN4148---	DIODE	1N4148 AUTO 52MM	
D401	D1N4002A--	DIODE	1N4002	
D501	DZN4148---	DIODE	1N4148 AUTO 52MM	
D502	DZN4148---	DIODE	1N4148 AUTO 52MM	
D532	DFMLG22S--	DIODE	FML-G22S	
D534	DDD54RC---	DIODE DAMPER	DD54RC	
D536	DUF4007---	DIODE	UF4007	
D537	DRP1H-----	DIODE	RP1H	
D538	DS2L60---R	DIODE	S2L60	
D581	DZN4148---	DIODE	1N4148 AUTO 52MM	
D591	D1N4937GP-	DIODE	1N4937GP (TAPPING)	
D801	DZN4148---	DIODE	1N4148 AUTO 52MM	
D802	DZN4148---	DIODE	1N4148 AUTO 52MM	
D803	DBAV20----	DIODE	BAV20	
D804	DZN4148---	DIODE	1N4148 AUTO 52MM	
D805	DZN4148---	DIODE	1N4148 AUTO 52MM	
D822A	DDZ5R1B---	DIODE ZENER	DZ-5.1B	
D823	DBAV20----	DIODE	BAV20	
D831	DZN4148---	DIODE	1N4148 AUTO 52MM	
D832	DZN4148---	DIODE	1N4148 AUTO 52MM	
D833	DBAV20----	DIODE	BAV20	
D834	DZN4148---	DIODE	1N4148 AUTO 52MM	
D835	DZN4148---	DIODE	1N4148 AUTO 52MM	
D861	DZN4148---	DIODE	1N4148 AUTO 52MM	
D862	DZN4148---	DIODE	1N4148 AUTO 52MM	
D863	DBAV20----	DIODE	BAV20	
D864	DZN4148---	DIODE	1N4148 AUTO 52MM	
D865	DZN4148---	DIODE	1N4148 AUTO 52MM	
D891	DBAV20----	DIODE	BAV20	
! DG001	5MG0000069	COIL DEGAUSSING	DG-905D	905D only
! DG001	5MG0000069	COIL DEGAUSSING	DG-905D	905DF only
! DP001	5MG0000064	COIL DEGAUSSING	DG-712D	720D only
! DP001	5MG0000069	COIL DEGAUSSING	DG-905D	905DS only

LOC	PART-CODE	PART-NAME	PART-DESC	NOTE
DZ011	DDZ4R7BM--	DIODE ZENER	DZ-4.7BM	
DZ101	DGDZJ18C--	DIODE ZENER	GDZJ 18C	
DZ201	DDZ5R1B---	DIODE ZENER	DZ-5.1B	
DZ202	DDZ5R1B---	DIODE ZENER	DZ-5.1B	
DZ203	DDZ5R1B---	DIODE ZENER	DZ-5.1B	
DZ204	DDZ5R1B---	DIODE ZENER	DZ-5.1B	
DZ316	DDZ5R1B---	DIODE ZENER	DZ-5.1B	
DZ501	DDZ4R7BM--	DIODE ZENER	DZ-4.7BM	
DZ531	DDZ15BM---	DIODE ZENER	DZ15BM	
F001	5F3CB3122L	FUSE CERA	SEMKO TL 3.15AH 250V MF51	
I401A	1KA2142---	IC V-OUT	KA2142	
I802A	1LM2453T--	IC VIDEO OUTPUT	LM2453T	
I802C	9970710186	CONN AS	1015#18BK=120	
IC001	1TEA1504--	IC POWER	TEA1504	
IC101	1K1A7812P1	IC REGULATOR	KIA7812API	
IC102	1K1A7805P1	IC REGULATOR	KIA7805API	
IC103	1KA431AZ--	IC REGULATOR	KA431AZ	
IC104	1KA78R05--	IC REGULATOR	KA78R05	
IC106	TBT169D---	SCR	BT169D	
IC203	124C08----	IC EEPROM	24C08	
IC301	1MC908BD48	IC MICOM	MC68HC908BD481B	
IC302	1K1A7042P-	IC SWITCH	KIA7042P	
IC303	1DBL358---	IC	DBL358 DUAL OP-AMP	
IC501	1TDA4856--	IC H.OSC	TDA4856	
IC601	1DBL358---	IC	DBL358 DUAL OP-AMP	
IC801	1LM1253N--	IC VIDEO PRE-AMP	LM1253N	
J292	RD-4Z100J-	R CARBON FILM	1/4 10 OHM J	
J322	RD-2Z399J-	R CARBON FILM	1/2 3.9 OHM J	
J330	RD-4Z479J-	R CARBON FILM	1/4 4.7 OHM J	
<u>J389</u>	<u>RD-4Z479J-</u>	<u>R CARBON FILM</u>	<u>1/4 4.7 OHM J</u>	
<u>J389</u>	<u>RD-AZ479J-</u>	<u>R CARBON FILM</u>	<u>1/6 4.7 OHM J</u>	
J556	RD-4Z100J-	R CARBON FILM	1/4 10 OHM J	
L101	5MC0000079	COIL CHOKE	101K	
L102	5MC0000079	COIL CHOKE	101K	
L103	5MC0000079	COIL CHOKE	101K	
L104	5MC0000079	COIL CHOKE	101K	
L105	5MC0000079	COIL CHOKE	101K	
L801	5CPZ228K02	COIL PEAKING	0.22UH K(AXIAL 3.5MM)	
L831	5CPZ228K02	COIL PEAKING	0.22UH K(AXIAL 3.5MM)	
L861	5CPZ228K02	COIL PEAKING	0.22UH K(AXIAL 3.5MM)	
L862	5CPZ128K02	COIL PEAKING	0.12UH K(AXIAL 3.5MM)	
L863	5CPZ128K02	COIL PEAKING	0.12UH K(AXIAL 3.5MM)	
LED1	DSD50GYW--	LED	SD50GYW(GREEN/AMBER)	
P001	9979500019	RECEPTACLE	BNS-02AA4LR-2	
<u>PCB1</u>	<u>9979800497</u>	<u>PCB CONTROL</u>	<u>T=1.6*215*36</u>	
<u>PCB1</u>	<u>9979800534</u>	<u>PCB CONTROL</u>	<u>T=1.6*215*36</u>	
PCB1	9979800542	PCB MAIN	T=1.6*330*246 (905D)	
PCB1	9979800547	PCB VIDEO	T=1.6*123*95 (905D)	
PH001	1TLP721GR-	IC PHOTO COUPLER	TLP721D4GR	
PR001	DECPAC140M	POSISTOR	ECPAC140M290	

LOC	PART-CODE	PART-NAME	PART-DESC	NOTE
Q011A	TSPP04N60S	FET	SPP04N60S5	
Q100	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)	
Q104	TZTC3207--	TR	KTC3207 (AUTO)	
Q105	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)	
Q301	TZSR1006--	TR	KSR1006 (AUTO)	
Q303	TZSR1006--	TR	KSR1006 (AUTO)	
Q304	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)	
Q361	TZTC3202Y-	TR	KTC3202Y (AUTO)(1959Y)	
Q362	TZTA1270Y-	TR	KTA1270Y(AUTO)(562Y)	
Q501	TZSR1006--	TR	KSR1006 (AUTO)	
Q511	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)	
Q531	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)	
Q532	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	
Q533	T1RF630A--	FET	IRF630A	
Q535	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)	
Q536	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	
Q537	T2SJ449---	TR	2SJ449	
Q539A	T2SC5411--	TR	2SC5411	
Q551	T1RF640---	FET	IRF640	
Q552	T1RF640---	FET	IRF640	
Q553	T1RF640---	FET	IRF640	
Q554	T1RF630A--	FET	IRF630A	
Q555	T1RF640---	FET	IRF640	
Q556	TZSR1006--	TR	KSR1006 (AUTO)	
Q557	TZSR1006--	TR	KSR1006 (AUTO)	
Q558	TZSR1006--	TR	KSR1006 (AUTO)	
Q559	TZSR1006--	TR	KSR1006 (AUTO)	
Q560	TZSR1006--	TR	KSR1006 (AUTO)	
Q561	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	
Q562	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)	
Q563	TKSC5042F-	TR	KSC5042F	
Q564	TKSC5042F-	TR	KSC5042F	
Q581	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	
Q582	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	
Q583	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)	
Q591	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)	
Q592	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)	
Q593	TKSA910Y--	TR	KSA910Y	
Q601	TZTC3202Y-	TR	KTC3202Y (AUTO)(1959Y)	
Q602	TZTA1270Y-	TR	KTA1270Y(AUTO)(562Y)	
R002	RD-2Z334J-	R CARBON FILM	1/2 330K OHM J	
R003	RD-2Z334J-	R CARBON FILM	1/2 330K OHM J	
R004	RS02Z334J-	R M-OXIDE FILM	2W 330K OHM J	
R010	RD-2Z475J-	R CARBON FILM	1/2 4.7M OHM J	
R011	RD-2Z475J-	R CARBON FILM	1/2 4.7M OHM J	
R013	RD-AZ474J-	R CARBON FILM	1/6 470K OHM J	
R015	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	
R016	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J	
R017	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J	
R021	RD-AZ220J-	R CARBON FILM	1/6 22 OHM J	

LOC	PART-CODE	PART-NAME	PART-DESC	NOTE
R022	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	
R023	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R025	RW01Z128JN	R WIRE WOUND	1W 0.12 OHM J NON-INDUCT	
R026	RX05V122J-	R CEMENT	5W 1.2K OHM J VERTICAL	
R027	RD-AZ563J-	R CARBON FILM	1/6 56K OHM J	
R028	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	
R103	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J	
R104	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R105	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R107	RD-4Z123J-	R CARBON FILM	1/4 12K OHM J	
R108	RN-AZ1803F	R METAL FILM	1/6 180K OHM F	
R110	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J	
R111	RN-AZ6191F	R METAL FILM	1/6 6.19K OHM F	
R112	RS02Z249J-	R M-OXIDE FILM	2W 2.4 OHM J (TAPPING)	
R120	RD-4Z224J-	R CARBON FILM	1/4 220K OHM J	
R121	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R122	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J	
R123	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	
R124	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R125	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R126	RS01Z689J-	R M-OXIDE FILM	1W 6.8 OHM J (TP)	
R127	RD-2Z123J-	R CARBON FILM	1/2 12K OHM J	
R133	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R211	RD-AZ622J-	R CARBON FILM	1/6 6.2K OHM J	
R212	RD-AZ822J-	R CARBON FILM	1/6 8.2K OHM J	
R272	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R301	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R303	RD-4Z221J-	R CARBON FILM	1/4 220 OHM J	
R304	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R305	RD-AZ106J-	R CARBON FILM	1/6 10M OHM J	
R306	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J	
R307	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R310	RD-AZ393J-	R CARBON FILM	1/6 39K OHM J	
R316	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R317	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R318	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R319	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R320	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R321	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R322	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R323	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J	
R324	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J	
R325	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R327	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R328	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R334	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R351	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R352	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R353	RD-AZ242J-	R CARBON FILM	1/6 2.4K OHM J	
R354	RD-AZ242J-	R CARBON FILM	1/6 2.4K OHM J	

LOC	PART-CODE	PART-NAME	PART-DESC	NOTE
R355	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R361	RD-AZ393J-	R CARBON FILM	1/6 39K OHM J	
R362	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R363	RD-4Z822J-	R CARBON FILM	1/4 8.2K OHM J	
R364	RD-2Z470J-	R CARBON FILM	1/2 47 OHM J	
R365	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R366	RD-2Z100J-	R CARBON FILM	1/2 10 OHM J	
R367	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R368	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J	
R369	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R370	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R372	RD-4Z101J-	R CARBON FILM	1/4 100 OHM J	
R403	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R404	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R405	RD-2Z129J-	R CARBON FILM	1/2 1.2 OHM J	
R408	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J	
R409	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J	
R411	RD-2Z129J-	R CARBON FILM	1/2 1.2 OHM J	
R412	RD-2Z109J-	R CARBON FILM	1/2 1 OHM J	
<u>R413</u>	<u>RD-2Z209J-</u>	<u>R CARBON FILM</u>	<u>1/2 2 OHM J</u>	905DS only
R413	RD-2Z279J-	R CARBON FILM	1/2 2.7 OHM J	
<u>R414</u>	<u>RD-2Z229J-</u>	<u>R CARBON FILM</u>	<u>1/2 2.2 OHM J</u>	905DS only
<u>R414</u>	<u>RD-2Z249J-</u>	<u>R CARBON FILM</u>	<u>1/2 2.4 OHM J</u>	720D,905D only
<u>R414</u>	<u>RD-2Z279J-</u>	<u>R CARBON FILM</u>	<u>1/2 2.7 OHM J</u>	905DF only
R416	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J	
R417	RD-AZ562J-	R CARBON FILM	1/6 5.6K OHM J	
R418	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J	
<u>R420</u>	<u>RS02Z151J-</u>	<u>R M-OXIDE FILM</u>	<u>2W 150 OHM J (TAPPING)</u>	720D,905D,905DS only
<u>R420</u>	<u>RS02Z181J-</u>	<u>R M-OXIDE FILM</u>	<u>2W 180 OHM J (TAPPING)</u>	905DF only
R423	RD-AZ822J-	R CARBON FILM	1/6 8.2K OHM J	
R501	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J	
R502	RD-AZ244J-	R CARBON FILM	1/6 240K OHM J	
R503	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R504	RD-AZ753J-	R CARBON FILM	1/6 75K OHM J	
R505	RD-4Z479J-	R CARBON FILM	1/4 4.7 OHM J	
R507	RS02Z430J-	R M-OXIDE FILM	2W 43 OHM J	
R508	RS02Z430J-	R M-OXIDE FILM	2W 43 OHM J	
R511	RN-AZ2741F	R METAL FILM	1/6 2.74K OHM F	
R512	RD-AZ271J-	R CARBON FILM	1/6 270 OHM J	
R513	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J	
R514	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J	
R515	RD-AZ512J-	R CARBON FILM	1/6 5.1K OHM J	
R516	RD-AZ822J-	R CARBON FILM	1/6 8.2K OHM J	
R517	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R518	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J	
R519	RD-AZ361J-	R CARBON FILM	1/6 360 OHM J	
R520	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R521	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R522	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R523	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	

LOC	PART-CODE	PART-NAME	PART-DESC	NOTE
R524	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	<u>905DF only</u> <u>720D,905D,905DS only</u>
R525	RS01Z129J-	R M-OXIDE FILM	1W 1.2 OHM J (TAPPING)	
<u>R528</u>	<u>RD-AZ153J-</u>	<u>R CARBON FILM</u>	<u>1/6 15K OHM J</u>	
<u>R528</u>	<u>RD-AZ393J-</u>	<u>R CARBON FILM</u>	<u>1/6 39K OHM J</u>	
R530	RD-AZ244J-	R CARBON FILM	1/6 240K OHM J	<u>905DS only</u>
R531	RS02Z201J-	R M-OXIDE FILM	2W 200 OHM J	
<u>R531</u>	<u>RS02Z301J-</u>	<u>R M-OXIDE FILM</u>	<u>2W 300 OHM J (TAPPING)</u>	
R532	RS02Z331J-	R M-OXIDE FILM	2W 330 OHM J TAPPING	
R533	RS02Z201J-	R M-OXIDE FILM	2W 200 OHM J	<u>905DS only</u>
<u>R533</u>	<u>RS02Z301J-</u>	<u>R M-OXIDE FILM</u>	<u>2W 300 OHM J (TAPPING)</u>	
R534	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J	
R535	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R536	RS02Z222J-	R M-OXIDE FILM	2W 2.2K OHM J (TAPPING)	<u>905DS only</u> <u>720D,905D,905DF only</u>
R537	RD-4Z220J-	R CARBON FILM	1/4 22 OHM J	
<u>R539</u>	<u>RS02Z159J-</u>	<u>R M-OXIDE FILM</u>	<u>2W 1.5 OHM J</u>	
<u>R539</u>	<u>RS02Z209J-</u>	<u>R M-OXIDE FILM</u>	<u>2W 2.0 OHM J</u>	
<u>R540</u>	<u>RS02Z159J-</u>	<u>R M-OXIDE FILM</u>	<u>2W 1.5 OHM J</u>	<u>905DS only</u>
<u>R540</u>	<u>RS02Z209J-</u>	<u>R M-OXIDE FILM</u>	<u>2W 2.0 OHM J</u>	<u>720D,905D,905DF only</u>
R541	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J	
R542	RD-AZ391J-	R CARBON FILM	1/6 390 OHM J	
R543	RD-4Z471J-	R CARBON FILM	1/4 470 OHM J	
R544	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R545	RS02Z200J-	R M-OXIDE FILM	2W 20 OHM J (TAPPING)	
R546	RS01Z221J-	R M-OXIDE FILM	1W 220 OHM J (TAPPING)	
R548	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J	
R549	RD-4Z220J-	R CARBON FILM	1/4 22 OHM J	
R550	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R551	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R552	RD-AZ105J-	R CARBON FILM	1/6 1M OHM J	
R553	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R554	RD-AZ105J-	R CARBON FILM	1/6 1M OHM J	
R555	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R556	RD-AZ105J-	R CARBON FILM	1/6 1M OHM J	
R557	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R558	RD-AZ105J-	R CARBON FILM	1/6 1M OHM J	
R559	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R560	RD-AZ105J-	R CARBON FILM	1/6 1M OHM J	
R561	RD-AZ683J-	R CARBON FILM	1/6 68K OHM J	
R562	RX07V753J-	R CEMENT	7W 75K OHM J VERTICAL	
R563	RD-2Z754J-	R CARBON FILM	1/2 750K OHM J	
R564	RS02Z823J-	R M-OXIDE FILM	2W 82K OHM J (TAPPING)	
R565	RS02Z823J-	R M-OXIDE FILM	2W 82K OHM J (TAPPING)	
R566	RD-2Z203J-	R CARBON FILM	1/2 20K OHM J	
R567	RD-4Z101J-	R CARBON FILM	1/4 100 OHM J	
<u>R568</u>	<u>RD-AZ271J-</u>	<u>R CARBON FILM</u>	<u>1/6 270 OHM J</u>	<u>905DS only</u>
<u>R568</u>	<u>RD-AZ301J-</u>	<u>R CARBON FILM</u>	<u>1/6 300 OHM J</u>	<u>905D,905DF only</u>
<u>R568</u>	<u>RD-AZ331J-</u>	<u>R CARBON FILM</u>	<u>1/6 330 OHM J</u>	<u>720D only</u>
<u>R569</u>	<u>RD-AZ101J-</u>	<u>R CARBON FILM</u>	<u>1/6 100 OHM J</u>	
R570	RD-AZ100J-	R CARBON FILM	1/6 10 OHM J	
R571	RD-AZ105J-	R CARBON FILM	1/6 1M OHM J	

LOC	PART-CODE	PART-NAME	PART-DESC	NOTE
R572	RD-AZ151J-	R CARBON FILM	1/6 150 OHM J	
R573	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	
R574	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	
R576	RD-4Z304J-	R CARBON FILM	1/4 300K OHM J	
R578	RS01Z129J-	R M-OXIDE FILM	1W 1.2 OHM J (TAPPING)	
R579	RD-4Z104J-	R CARBON FILM	1/4 100K OHM J	
R580	RD-AZ361J-	R CARBON FILM	1/6 360 OHM J	
R581	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R583	RD-AZ562J-	R CARBON FILM	1/6 5.6K OHM J	
R584	RD-AZ753J-	R CARBON FILM	1/6 75K OHM J	
R585	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R586	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R587	RD-2Z754J-	R CARBON FILM	1/2 750K OHM J	
R588	RS02Z364J-	R M-OXIDE FILM	2W 360K OHM J (TP)	
R590	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R591	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R592	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J	
R593	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R594	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J	
R595	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R596	RD-4Z513J-	R CARBON FILM	1/4 51K OHM J	
R597	RD-4Z274J-	R CARBON FILM	1/4 270K OHM J	
R601	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R602	RD-AZ513J-	R CARBON FILM	1/6 51K OHM J	
R606	RD-4Z822J-	R CARBON FILM	1/4 8.2K OHM J	
R607	RD-AZ393J-	R CARBON FILM	1/6 39K OHM J	
R608	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R614	RD-4Z100J-	R CARBON FILM	1/4 10 OHM J	
R702	RD-AZ302J-	R CARBON FILM	1/6 3K OHM J	
R703	RD-AZ273J-	R CARBON FILM	1/6 27K OHM J	
R704	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J	
R705	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J	
R706	RD-AZ623J-	R CARBON FILM	1/6 62K OHM J	
R801	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
R802	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	
R804	RD-AZ820J-	R CARBON FILM	1/6 82 OHM J	
R805	RD-2Z330J-	R CARBON FILM	1/2 33 OHM J	
R807	RD-AZ105J-	R CARBON FILM	1/6 1M OHM J	
R811	RD-AZ121J-	R CARBON FILM	1/6 120 OHM J	
R812	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R813	RD-4Z104J-	R CARBON FILM	1/4 100K OHM J	
R820	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R821	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R822	RD-AZ432J-	R CARBON FILM	1/6 4.3K OHM J	
R823	RD-AZ331J-	R CARBON FILM	1/6 330 OHM J	
R824	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R827	RD-AZ303J-	R CARBON FILM	1/6 30K OHM J	
R828	RD-AZ301J-	R CARBON FILM	1/6 300 OHM J	
R829	RD-AZ301J-	R CARBON FILM	1/6 300 OHM J	
R831	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	

LOC	PART-CODE	PART-NAME	PART-DESC	NOTE
R832	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	
R834	RD-AZ820J-	R CARBON FILM	1/6 82 OHM J	
R835	RD-2Z330J-	R CARBON FILM	1/2 33 OHM J	
R837	RD-AZ105J-	R CARBON FILM	1/6 1M OHM J	
R851	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
R861	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
R862	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	
R864	RD-AZ820J-	R CARBON FILM	1/6 82 OHM J	
R865	RD-2Z330J-	R CARBON FILM	1/2 33 OHM J	
R866	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R867	RD-AZ105J-	R CARBON FILM	1/6 1M OHM J	
R890	RD-AZ753J-	R CARBON FILM	1/6 75K OHM J	
R891	RD-2Z101J-	R CARBON FILM	1/2 100 OHM J	
R892	RD-4Z564J-	R CARBON FILM	1/4 560K OHM J	
R893	RD-4Z106J-	R CARBON FILM	1/4 10M OHM J	
R898	RD-2Z181J-	R CARBON FILM	1/2 180 OHM J	
RL001	5SC0102116	SW RELAY	ALA2PF12 1C-2P	
! SC01	9970800048	CABLE SIGNAL AS	15P+2C/DDC=1.5M(GY275A)	
SG801	DWSP201M--	SURGE ABSORBER	WSP-201M	
SG831	DWSP201M--	SURGE ABSORBER	WSP-201M	
SG861	DWSP201M--	SURGE ABSORBER	WSP-201M	
SG890	DWSP301M--	SURGE ABSORBER	WSP-301M	
<u>SW701</u>	<u>5S50101Z01</u>	<u>SW TACT</u>	<u>KPT-1115VM 1C-1P</u>	<u>720Donly</u>
<u>SW701</u>	<u>5S50101Z10</u>	<u>SW TACT</u>	<u>KPT-1115AM</u>	<u>905D,905DS,905DF only</u>
<u>SW702</u>	<u>5S50101Z01</u>	<u>SW TACT</u>	<u>KPT-1115VM 1C-1P</u>	<u>720D only</u>
<u>SW702</u>	<u>5S50101Z10</u>	<u>SW TACT</u>	<u>KPT-1115AM</u>	<u>905D,905DS,905DF only</u>
<u>SW703</u>	<u>5S50101Z01</u>	<u>SW TACT</u>	<u>KPT-1115VM 1C-1P</u>	<u>720D only</u>
<u>SW703</u>	<u>5S50101Z10</u>	<u>SW TACT</u>	<u>KPT-1115AM</u>	<u>905D,905DS,905DF only</u>
<u>SW704</u>	<u>5S50101Z01</u>	<u>SW TACT</u>	<u>KPT-1115VM 1C-1P</u>	<u>720D only</u>
<u>SW704</u>	<u>5S50101Z10</u>	<u>SW TACT</u>	<u>KPT-1115AM</u>	<u>905D,905DS,905DF only</u>
<u>SW705</u>	<u>5S50101Z01</u>	<u>SW TACT</u>	<u>KPT-1115VM 1C-1P</u>	<u>720D only</u>
<u>SW705</u>	<u>5S50101Z10</u>	<u>SW TACT</u>	<u>KPT-1115AM</u>	<u>905D,905DS,905DF only</u>
<u>SW706</u>	<u>5S50101Z01</u>	<u>SW TACT</u>	<u>KPT-1115VM 1C-1P</u>	<u>720D only</u>
<u>SW706</u>	<u>5S50101Z10</u>	<u>SW TACT</u>	<u>KPT-1115AM</u>	<u>905D,905DS,905DF only</u>
! T001	5RM0000104	TRANS SMPS	DMT-905D	
T201	5RH0000134	FBT	HVGII-30	
T501	5RD0000053	TRANS DRIVE	DDT-905D	
T502	5MH0000081	COIL H-LINEARITY	TRL-905D	
T503	5R50000038	TRANS BUCK	DT-905D	
T506	5RF0000008	COIL SIZE	DCT-905D	
TH001	DTP8D13---	THERMISTOR	TP8D13	
VR501	RV6421104P	R SEMI FIXED	CCT 065AT 100K OHM B TAP	
VR581	RV6421102P	R SEMI FIXED	CCT 065AT 1K OHM B TAP	
X301	5XE24R000E	CRYSTAL QUARTZ	HC-49/U 24.00000MHZ 30PPM	

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